

R&D Day 2019

Update on Research Programs

February 28, 2019

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Agenda

- Opening Welcome
- Corporate Strategy & Pipeline Growth
- Proliferative Vitreoretinopathy A Rare Retinal Disease

- Ocular Disease Area Program Updates
- Ocular Disease Area Market Opportunities
- Conclusion
- Q&A

Todd Brady, CEO

David McMullin, CCO

Dean Eliott, M.D. Harvard Medical School Mass. Eye and Ear Infirmary

David Clark, CMO

Chris Pearson, VP Commercial

Todd Brady, CEO



Our Mission

Developing Next-Generation Medicines to Improve the Lives of Patients with Immune-Mediated Diseases



Suffer from some form of **immunemediated disease**, and **incidence is increasing**

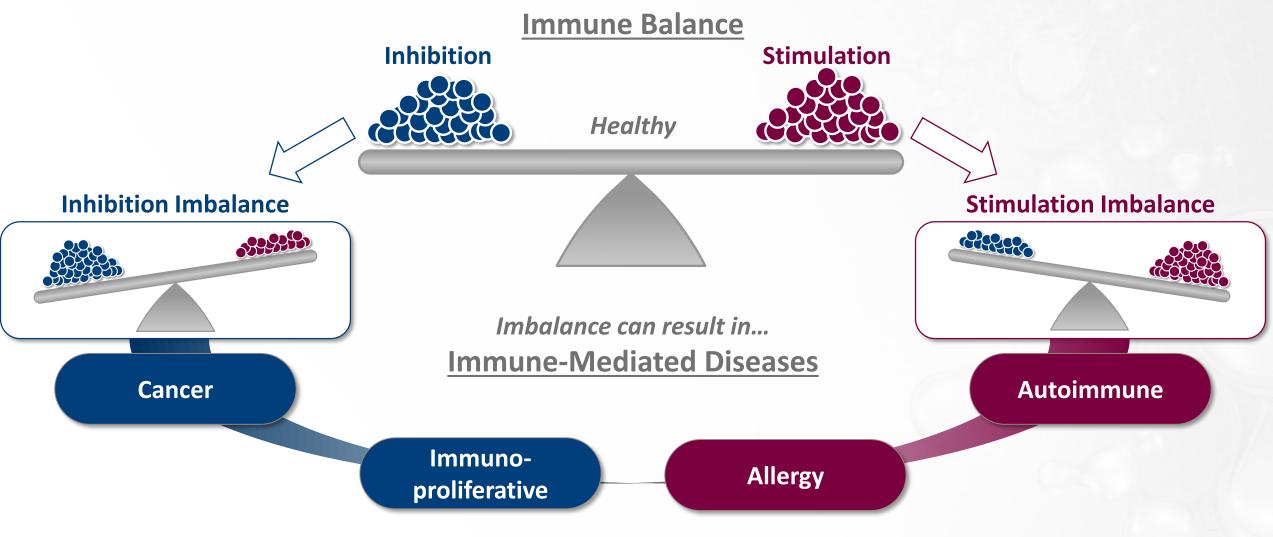


Disease control elusive despite existing therapies, and thus **novel approaches are needed**

Source: Lerner, Jeremias, and Matthias, International Journal of Celiac Disease, vol. 3, no. 4 (2015): 151-155; Shurin and Smolkin, Advances in Experimental Medicines and Biology 601:3-12, 2007; Kuek et al, Postgraduate Medical Journal 83(978): 251-260, 2007.

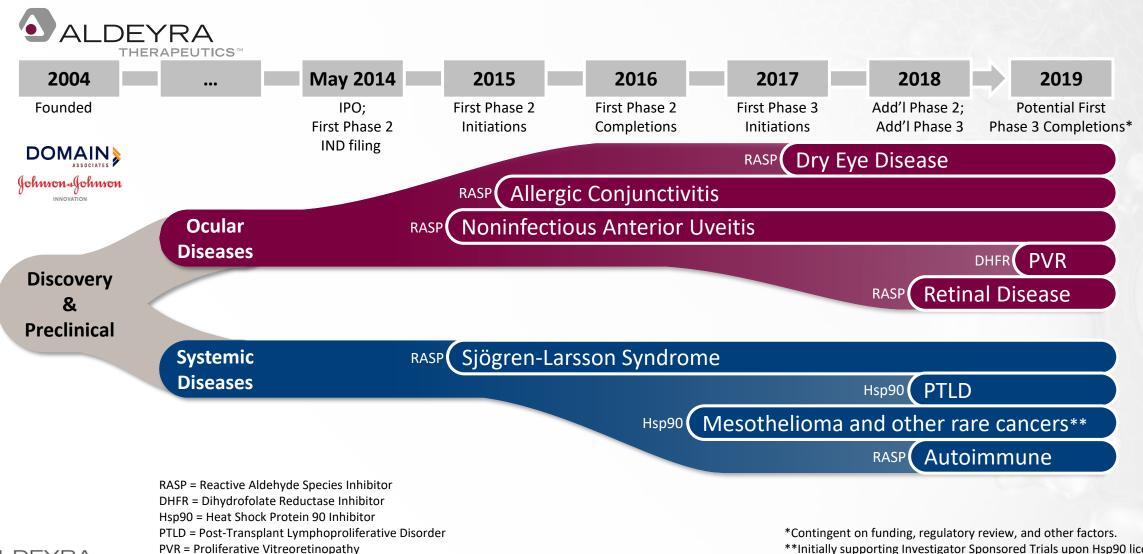


Immune System Imbalance Leads to Immune-Mediated Disease



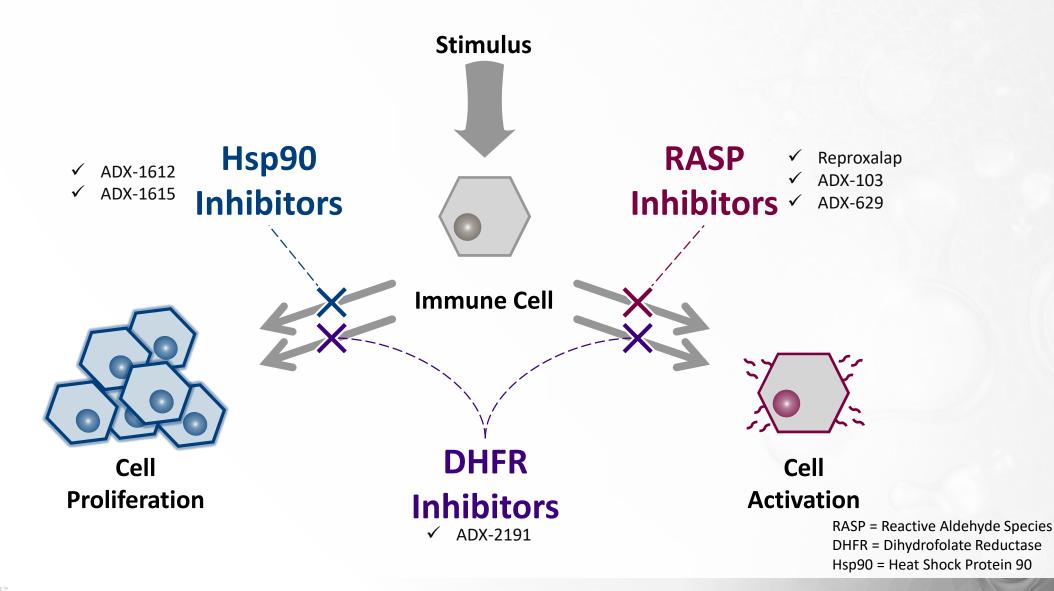


Deliberate Focus on Ocular Diseases and Select Systemic Diseases



6 **Initially supporting Investigator Sponsored Trials upon Hsp90 licensure.

Our Novel Approaches to Address Immune-Mediated Disease





7

Deep and Innovative Pipeline Focused on Immune-Mediated Diseases

Disease Area	Compound	[Mechanism]	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Next Anticipated Milestone	
Ocular Diseases	Reproxalap	[RASP]	Dry Eye Disease			 ✓ 		Phase 3-Part 1 initiation H1 2019	
			Allergic Conjunctivitis			√ √		Phase 3 results early 2019	
			Noninfectious Anterior Uveitis			\checkmark		Phase 3 results H2 2019	
	ADX-2191	[DHFR]	Proliferative Vitreoretinopathy					Phase 3-Part 1 initiation H2 2019	
	ADX-103	[RASP]	Retinal Disease					Phase 1/2 initiation 2020	
	Undisclosed		Ocular Inflammation	Research	h Collaboratic	on (undisclosed	1)		
Systemic Diseases	Reproxalap	[RASP]	Sjögren-Larsson Syndrome			\checkmark		Phase 3-Part 1 results H2 2019	
	ADX-1612	[Hsp90]	PTLD					Phase 2 initiation 2019	
			Mesothelioma			\checkmark		Phase 2 initiation 2019	
			Ovarian Cancer			Investigat	or-Sponsore	d Trial	
	ADX-629	[RASP]	Autoimmune Disease			(Phase 1 initiation H2 2019	
	ADX-1615	[Hsp90]	Autoimmune Disease / Cancer						
	Undisclosed	[RASP]	Systemic Inflammatory Disease	Research	h Collaboratio	on Janssen			
		RASP = Reactive Aldehyde Species Inhibitor			\checkmark = Positive Phase 2 clinical trial data reported in 2016 – 2018				

Trial initiations contingent on funding, regulatory review, and other factors

8

 RASP = Reactive Aldehyde Species Inhibitor DHFR = Dihydrofolate Reductase Inhibitor Hsp90 = Heat Shock Protein 90 Inhibitor PTLD = Post-Transplant Lymphoproliferative Disorder

Helio Vision Acquisition Expands Pipeline in Support of Our Strategic Growth Plans



Retinal disease a strategic priority for pipeline growth



Novel therapeutic approach leveraging an immunological mechanism that diminishes inflammation and cell proliferation



Addition of Phase 3-ready clinical program



Orphan drug designation for proliferative vitreoretinopathy, a potentially blinding disease with **no approved treatment**



Potential applicability to a variety of other diseases





Proliferative Vitreoretinopathy – A Rare Retinal Disease

Dean Eliott, M.D. Professor of Ophthalmology at Harvard Medical School, and Director of the Retina Service at Massachusetts Eye and Ear Infirmary

Nasdaq: ALDX ©Aldeyra Therapeutics, Inc. 2019 Multiple Intravitreal Injections of Methotrexate for the Prevention of Proliferative Vitreoretinopathy

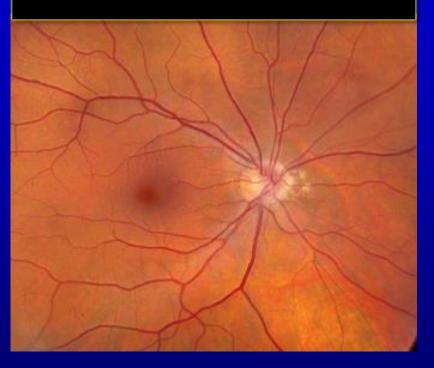
A severe scarring condition that develops after retinal detachment surgery

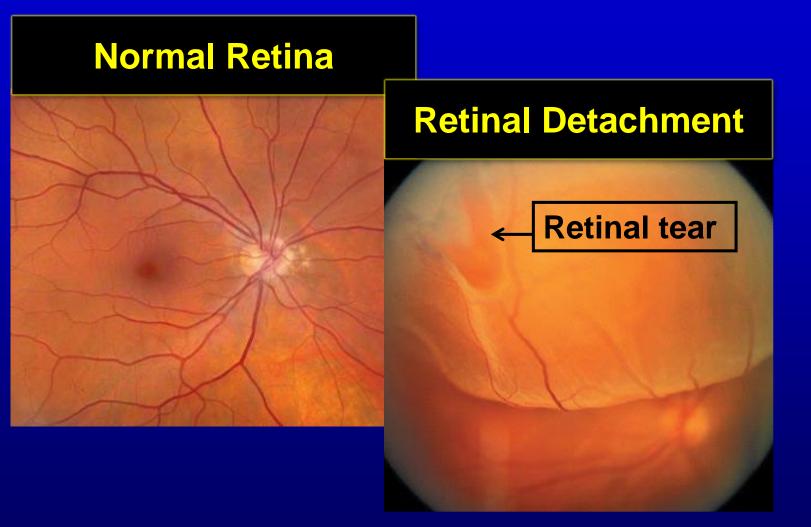
A severe scarring condition that develops after retinal detachment surgery The leading cause of failure after retinal detachment surgery

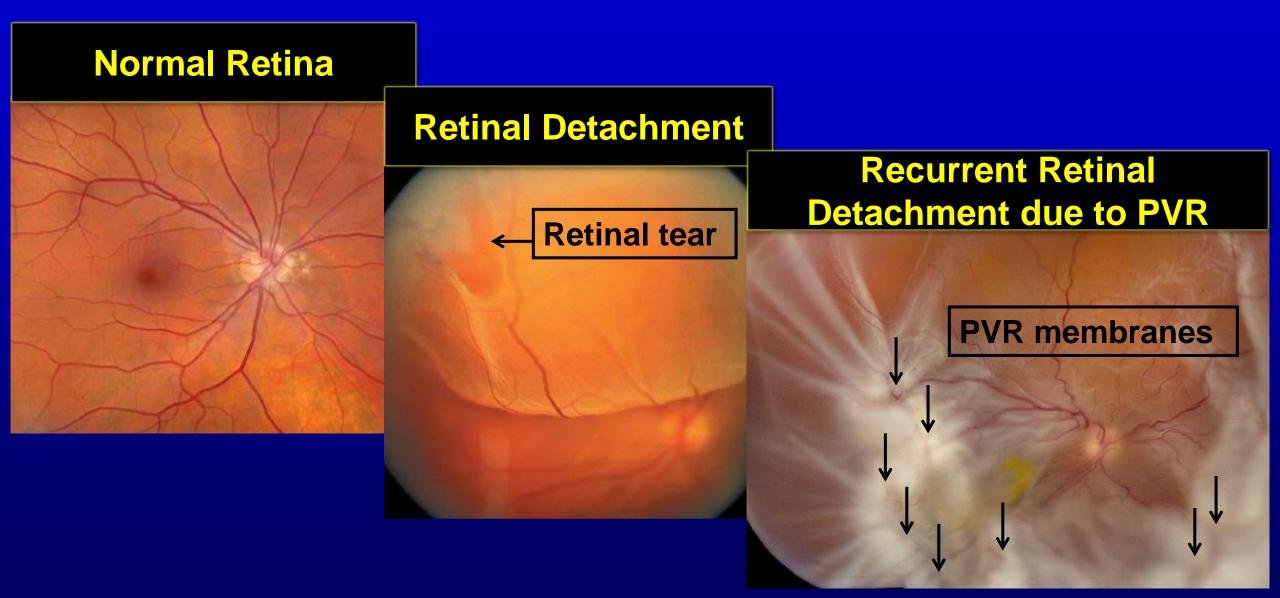
A severe scarring condition that develops after retinal detachment surgery The leading cause of failure after retinal detachment surgery

PVR is an unsolved problem

Normal Retina





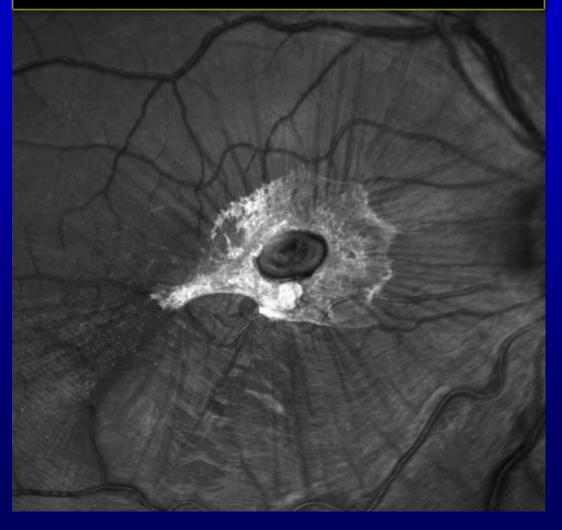


Epiretinal Membrane

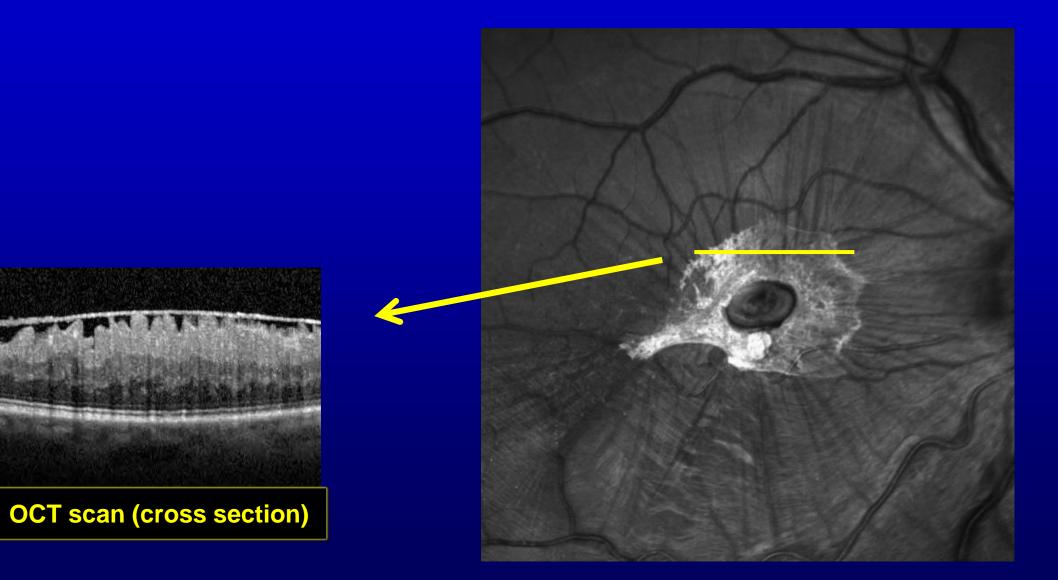
Normal Retina

Epiretinal Membrane

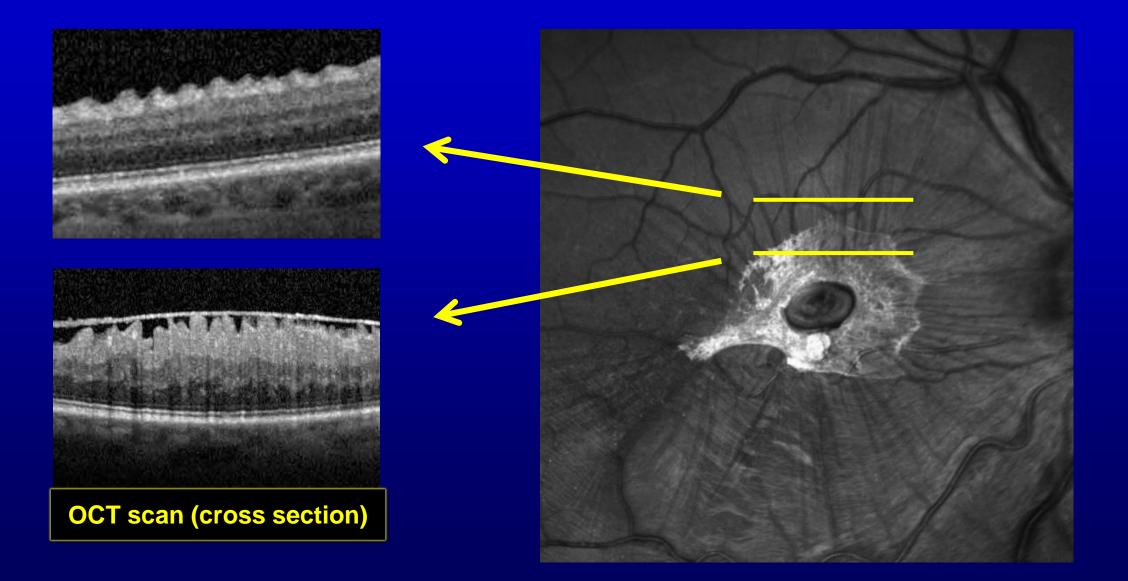




Epiretinal Membrane

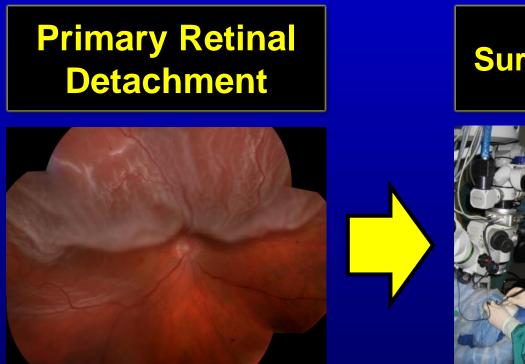


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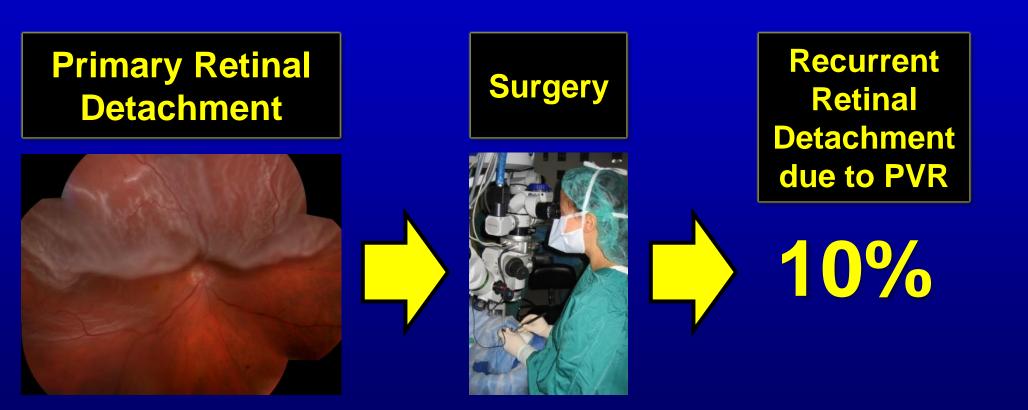


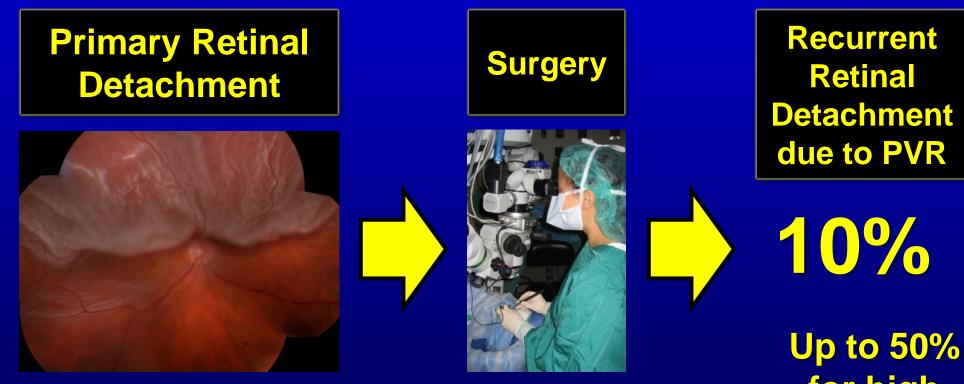
Primary Retinal Detachment



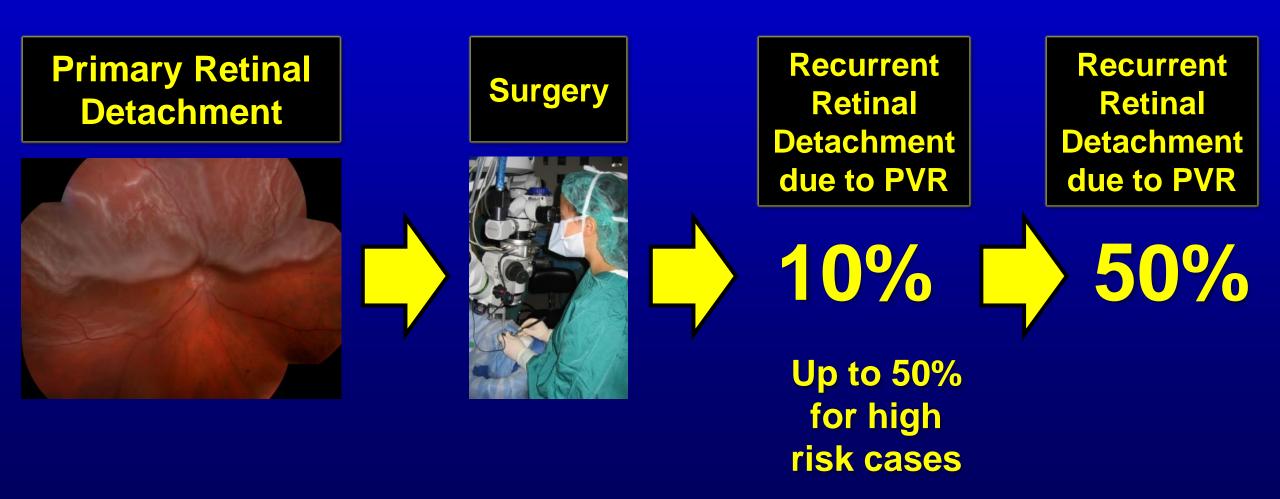


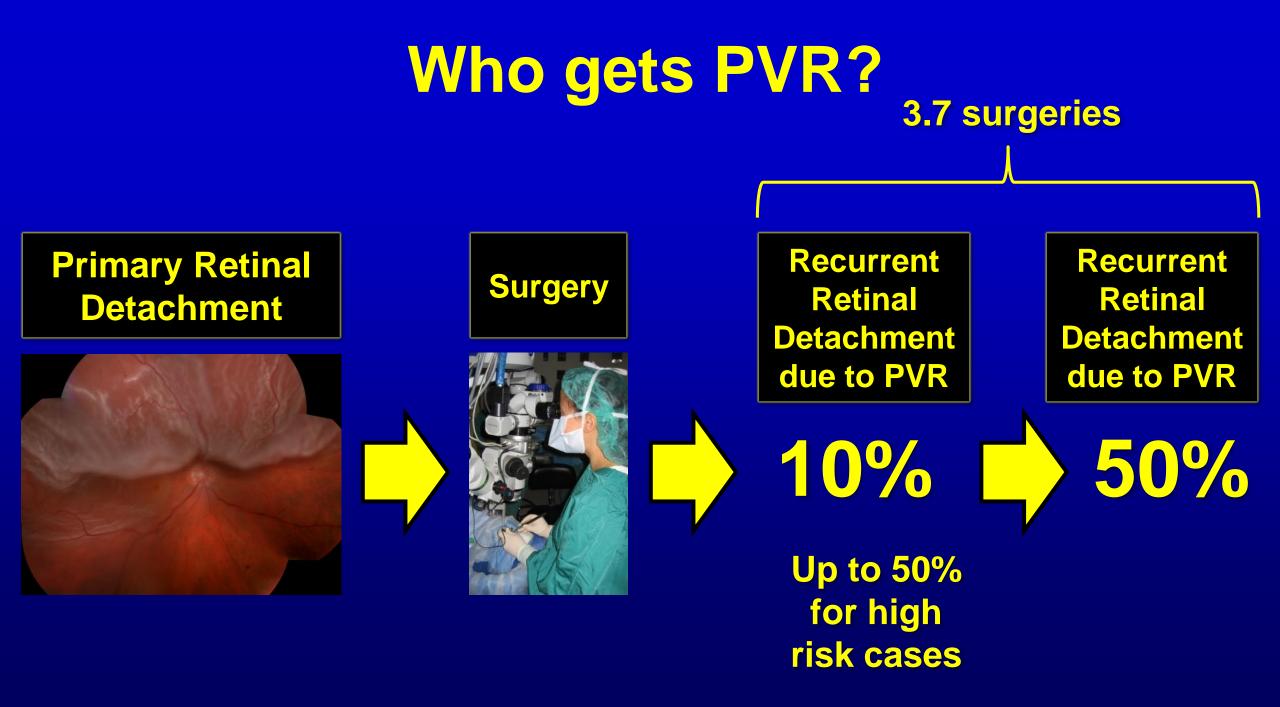






Up to 50% for high risk cases





Retinal Detachment Associated with Open Globe Injury

















Surgery

















Recurrent Retinal Detachment due to PVR

50%

Genetics

Ocular Factors

Behavioral Factors

Genetics

Ocular Factors

Behavioral Factors

The p53 Codon 72 Polymorphism (rs1042522) Is Associated with Proliferative Vitreoretinopathy

The Retina 4 Project

Salvador Pastor-Idoate, MD,^{1,2,3} Irene Rodriguez-Hernández, MSc,² Jimena Rojas, MD, PhD,³ Irziar Fernández, Stc,³ María Teresa García-Guierrez, BSc,³ Jose María Ruiz-Moreno, MD, PhD,⁴ Amandio Rocha-Sousa, MD, PhD,⁵ Vashin Ramkisson, PhD, FRCOphth,⁶ Steven Harsten, MD, PhD,⁶ Robert E. MacLaren, MD, PhD,⁶⁻⁷ David Charteris, MD, PhD,⁶ Jan van Meurs, MD, PhD,⁶ Rogelio González-Sarmiento, MD, PhD,^{2,9} Jose Carlos Pastor, MD,^{1,13} on behalf of the Genetics on PVR Study Group⁸

A Genetic Case-Control Study Confirms the Implication of *SMAD7* and *TNF Locus* in the Development of Proliferative Vitreoretinopathy

Jimena Rojas,¹ Itziar Fernandez,² Jose C. Pastor,^{1–3} Robert E. MacLaren,⁴ Yashim Ramkissoon,⁴ Steven Harsum,⁴ David G. Charteris,⁴ Jan C. Van Meurs,⁵ Sankba Amarakoon,⁵ Jose M. Ruiz-Moreno,⁶ Amandio Rocha-Sousa,⁷ Maria Brion,^{8,9} and Angel Carracedo,^{8,9} for the Genetics on PVR Study Group¹⁰

BAX and BCL-2 polymorphisms, as predictors of proliferative vitreoretinopathy development in patients suffering retinal detachment: the Retina 4 project

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The T309G MDM2 Gene Polymorphism Is a Novel Risk Factor for Proliferative Vitreoretinopathy

Salvador Pastor-Idoate^{1,2}, Irene Rodríguez-Hernández^{2,3}, Jimena Rojas¹, Itziar Fernández¹, María T. Garcia-Gutiérrez¹, José M. Ruiz-Moreno⁴, Amandio Rocha-Sousa⁵, Yashin Ramkissoon⁶, Steven Harsum⁶, Robert E. MacLaren^{6,7}, David Charteris⁶, Jan C. VanMeurs⁸, Rogelio González-Sarmiento^{2,3}, José C. Pastor¹s, on behalf of the Genetics on PVR Study Group¹

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Ocular Factors

- post-trauma
- uveitis
- high myopia
- large/giant breaks
- multiple breaks
- vitreous hemorrhage
- choroidal detachment
- early PVR

Behavioral Factors

Genetics

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- post-trauma
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- vitreous hemorrhage
- choroidal detachment
- early PVR

Behavioral Factors

SMOKING IS A RISK FACTOR FOR PROLIFERATIVE VITREORETINOPATHY AFTER TRAUMATIC RETINAL DETACHMENT

DEAN ELIOTT, MD,*† TOMASZ P. STRYJEWSKI, MD, MPP,*† MICHAEL T. ANDREOLI, MD,‡ CHRISTOPHER M. ANDREOLI, MD*‡§

PREDICTIVE FACTORS FOR PROLIFERATIVE VITREORETINOPATHY FORMATION AFTER UNCOMPLICATED PRIMARY RETINAL DETACHMENT REPAIR

KUNYONG XU, MD, MHSC.* ERIC K. CHIN, MD,† STEVEN R. BENNETT, MD,‡ DAVID F. WILLIAMS, MD, MBA,‡ EDWIN H. RYAN, MD,‡ SUNDEEP DEV, MD,‡ ROBERT A. MITTRA, MD,‡ POLLY A. QUIRAM, MD, PaD,‡ JOHN B. DAVIES, MD,‡ DAVID WILKIN PARKE III, MD,‡ HERBERT CULVER BOLDT, MD,§ DAVID R. P. ALMEIDA, MD, MBA, PaD≵

Burden of PVR

- Multiple surgeries (average = 3.7)
- Cost (~\$8,000/surgery)
- Each retinal detachment results in further permanent visual loss
- Each surgery requires a period of face down positioning





Pharmacologic Trials to Prevent PVR

- Heparin and dexamethasone
- Daunorubicin
- Triamcinolone acetonide
- Prednisone



- 5-Fluorouracil and low-molecular-weight heparin
- Ribozyme to proliferating cell nuclear antigen

Pharmacologic Trials to Prevent PVR

• One-time injection at conclusion of surgery



• One-time injection at conclusion of surgery

Triamcinolone Acetonide in Silicone-Filled Eyes as Adjunctive Treatment for Proliferative Vitreoretinopathy

A Randomized Clinical Trial

Hamid Ahmadieh, MD,¹ Mostafa Feghhi, MD,¹ Homa Tabatabaei, MD,¹ Nasser Shoeibi, MD,¹ Alireza Ramezani, MD,¹ Mohammad Reza Mohebbi, MS¹

Ophthalmology 115:1938-1943,2008

Safety and Efficacy Assessment of Chimeric Ribozyme to Proliferating Cell Nuclear Antigen to Prevent Recurrence of Proliferative Vitreoretinopathy

William M. Schiff, MD; John C. Hwang, MD; Michael D. Ober, MD; Jeffrey L. Olson, MD; Elona Dhrami-Gavazi, MD; Gaetano R. Barile, MD; Stanley Chang, MD; Naresh Mandava, MD; for the IM-VIT100 Study Group

Arch Ophthalmol 125:1161-1167;2007





• One-time infusion during or at conclusion of surgery



One-time infusion during or at conclusion of surgery

R. Geoff WilliamsDoes the presence of heparinStanley Changand dexamethasone in the vitrectomyMark R. Comarattainfusate reduce reproliferationGeorge Simoniin proliferative vitreoretinopathy?

Graefe's Arch Clin Exp Oph 234,1996

Adjunctive Daunorubicin in the Treatment of Proliferative Vitreoretinopathy: Results of a Multicenter Clinical Trial

P. WIEDEMANN, MD, R. D. HILGERS, PHD, P. BAUER, PHD, AND K. HEIMANN, MD, FOR THE DAUNOMYCIN STUDY GROUP

Am J Ophthalmol 126:550-559,1998

One-time infusion during or at conclusion of surgery

Adjuvant 5-fluorouracil and Heparin Prevents Proliferative Vitreoretinopathy

Results from a Randomized, Double-blind, Controlled Clinical Trial

Riaz Hassan Yusuf Asaria, FRCOphth,^{1,2} Chee Hing Kon, MD, FRCOphth,^{1,2} Catey Bunce, MSc,³ David G. Charteris, MD, FRCOphth^{1,2}, David Wong, MD, FRCOphth,⁴ Peng Tee Khaw, PhD, FRCOphth,^{1,2} George William Aylward, MD, FRCOphth^{1,2}

Ophthalmology 108:1179-1183,2001

A Randomized Controlled Trial of Combined 5-Fluorouracil and Low-Molecular-Weight Heparin in Management of Established Proliferative Vitreoretinopathy

David G. Charteris, MD, FRCS (Ed),¹ G. William Aylward, MD, FRCS,¹ David Wong, FRCS, FRCOphth,² Carl Groenewald, FRCS, FRCOphth,² Riaz H. Y. Asaria, MD, FRCS,¹ Catey Bunce, DSc,³ for the PVR Study Group*

Ophthalmology 111:2240-2245,2004

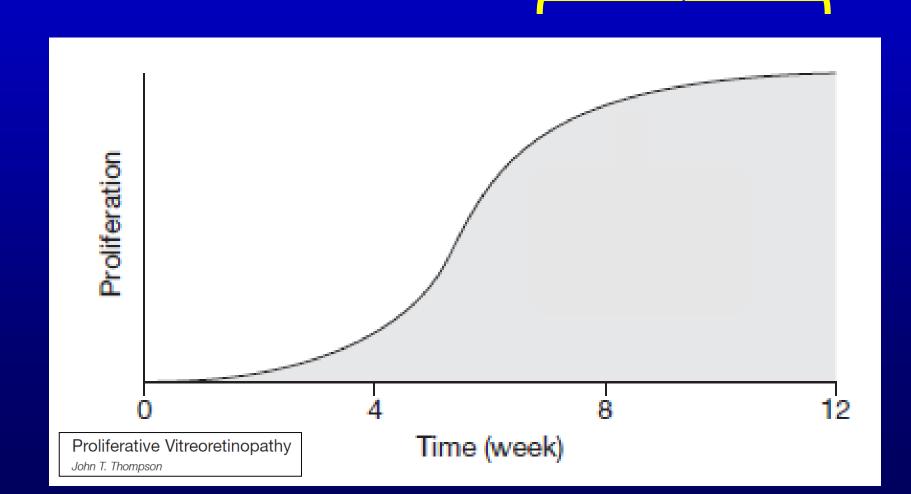


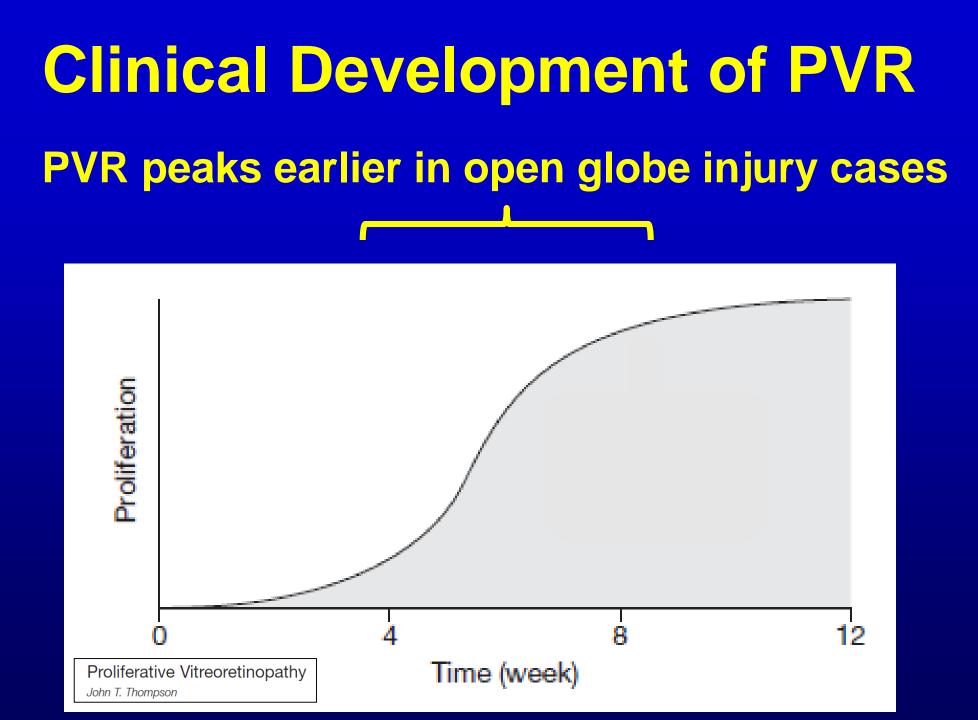
Randomized Controlled Trial of Combined 5-Fluorouracil and Low-Molecular-Weight Heparin in the Management of Unselected Rhegmatogenous Retinal Detachments Undergoing Primary Vitrectomy

L. Wickham, MBBS, MRCOphth, $^{\rm I}$ C. Bunce, MSc, DSc, $^{\rm I}$ D. Wong, FRCS, FRCOphth, $^{\rm 2}$ D. McGurn, RGN, D. G. Charteris, FRCS(Ed), FRCOphth $^{\rm I}$

Ophthalmology 114:698-704,2007

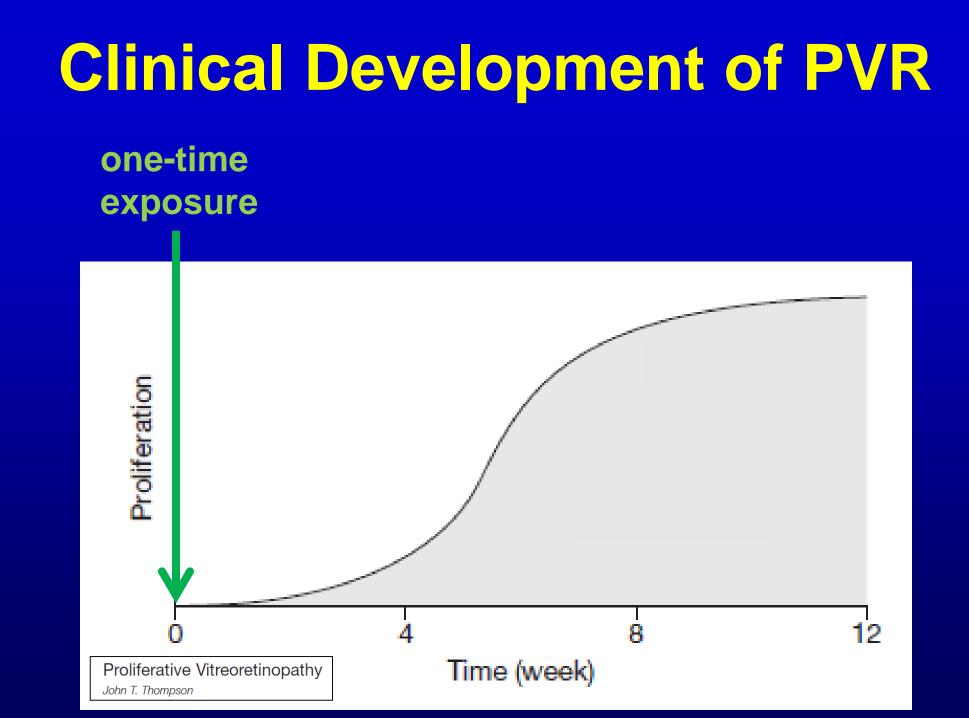
PVR peaks 2-3 months

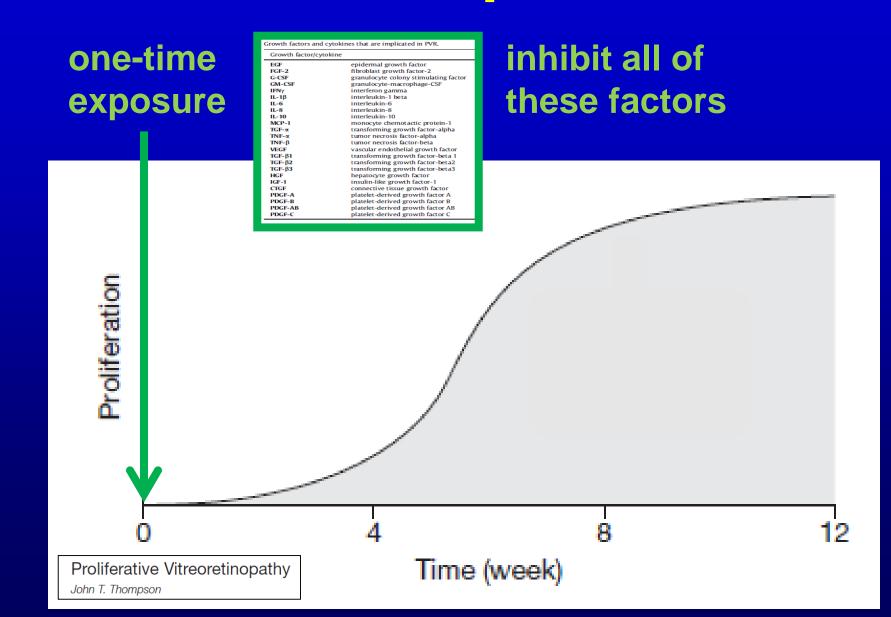


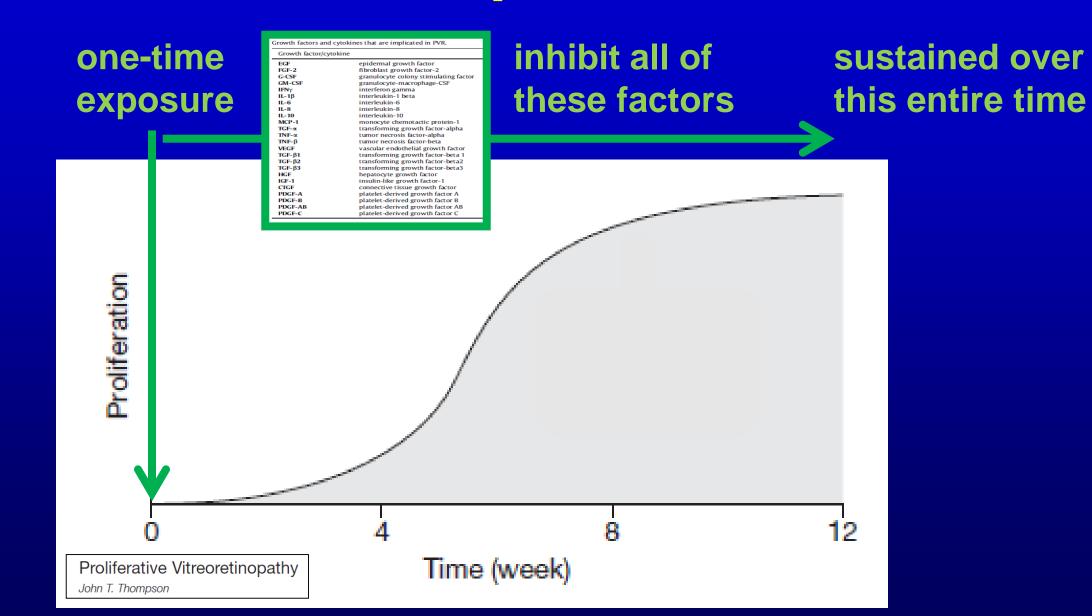


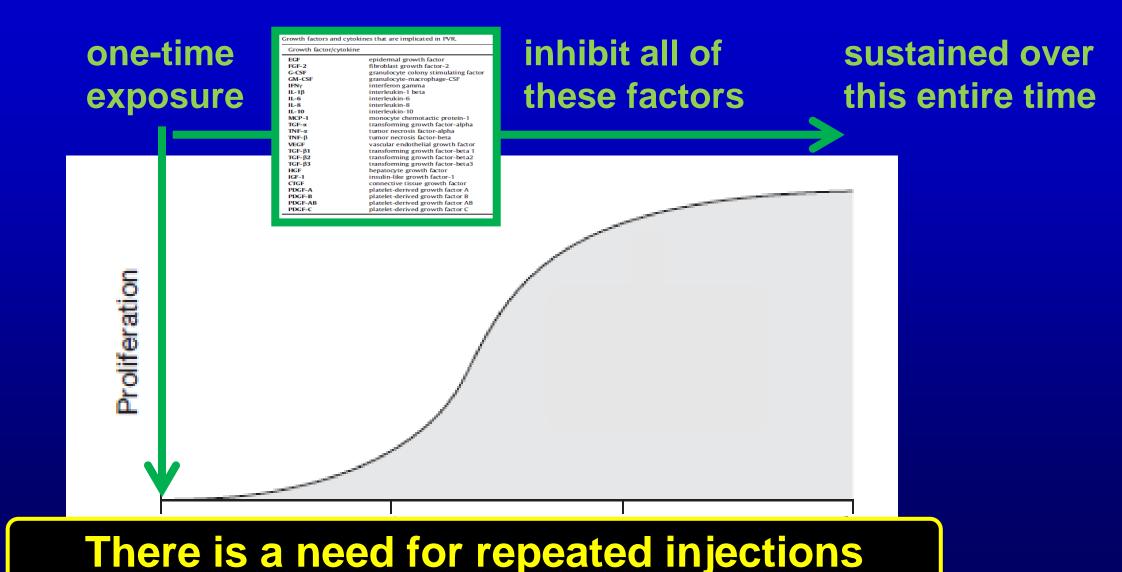
		Growth factors and cytokines that are implicated in PVR.		
		Growth factor/cytokine		
		EGF	epidermal growth factor	
		FGF-2	fibroblast growth factor-2	
		G-CSF	granulocyte colony stimulating factor	
Proliferation		GM-CSF	granulocyte-macrophage-CSF	
		IFNγ	interferon gamma	
		IL-1β	interleukin-1 beta	
		IL-6	interleukin-6	
		IL-8	interleukin-8	
		IL-10	interleukin-10	
		MCP-1	monocyte chemotactic protein-1	
		TGF-a	transforming growth factor-alpha	
		TNF-α	tumor necrosis factor-alpha	
		TNF-β	tumor necrosis factor-beta	
		VEGF	vascular endothelial growth factor	
		TGF-β1	transforming growth factor-beta 1	
		TGF-β2	transforming growth factor-beta2	
		TGF-β3	transforming growth factor-beta3	
		HGF	hepatocyte growth factor	
		IGF-1	insulin-like growth factor-1	
		CIGF	connective tissue growth factor	
		PDGF-A	platelet-derived growth factor A	
, i i i i i i i i i i i i i i i i i i i	`	PDGF-B	platelet-derived growth factor B	
U		PDGF-AB	platelet-derived growth factor AB	
Proliferativ	ve Vitreoreti	PDGF-C	platelet-derived growth factor C	
John T. Thompson				
John I. Thompson				

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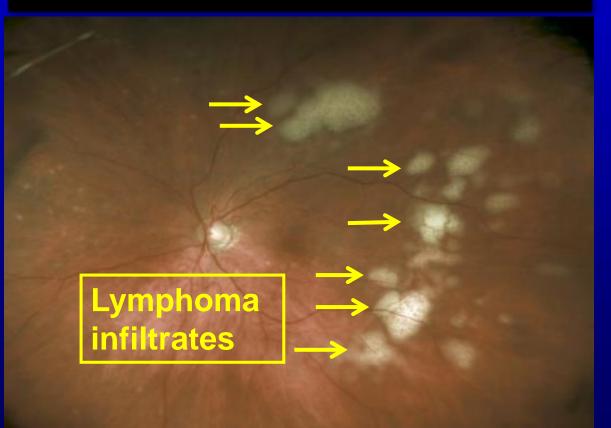


Clinical Observation

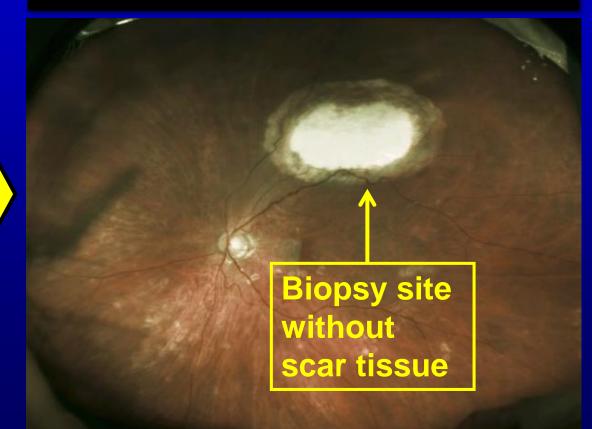
Ocular lymphoma patients who undergo chorioretinal biopsy do not develop scar tissue (epiretinal membrane or PVR) if they receive serial intravitreal methotrexate injections



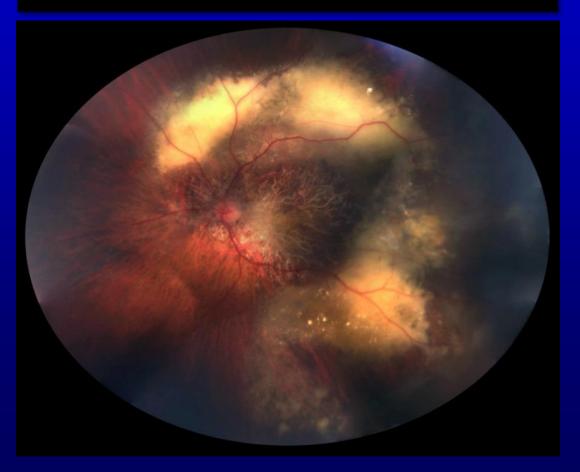
Lymphoma, Pre-treatment



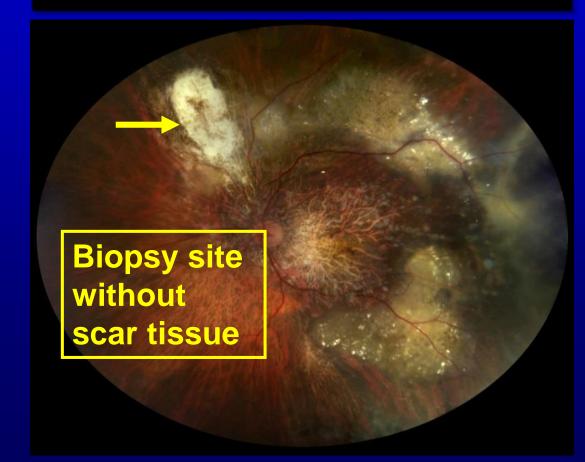
Lymphoma, Post-treatment



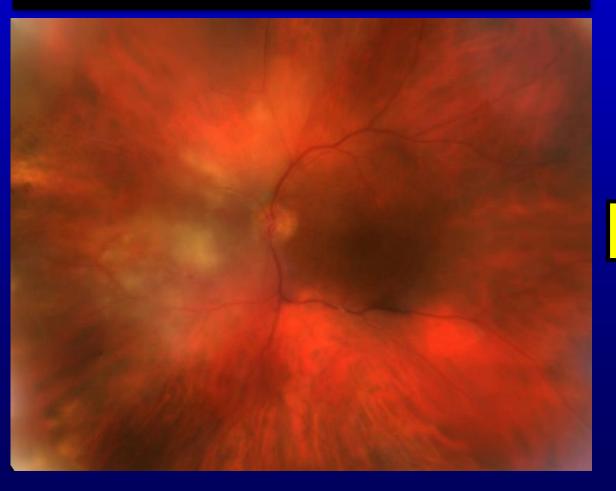
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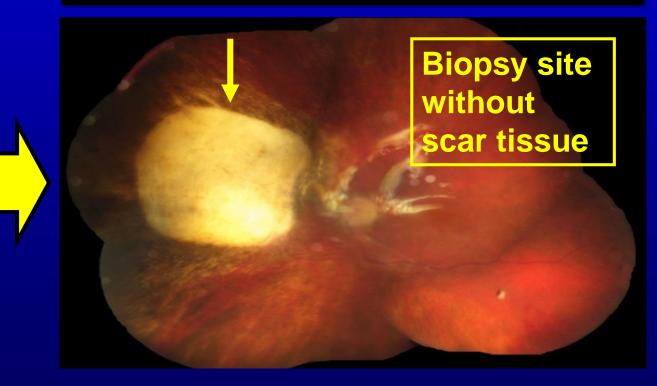
Lymphoma, Post-treatment

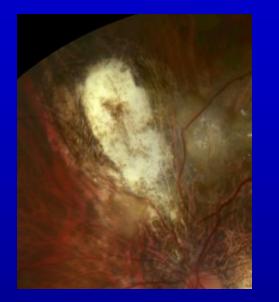


Lymphoma, Pre-treatment

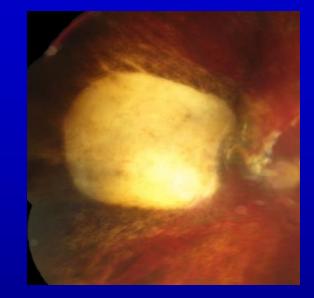


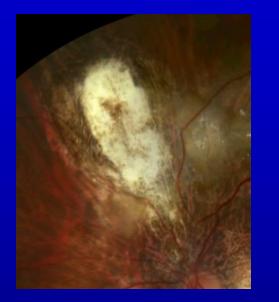
Lymphoma, Post-treatment



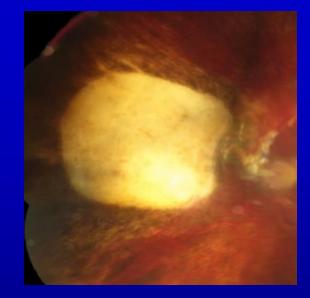




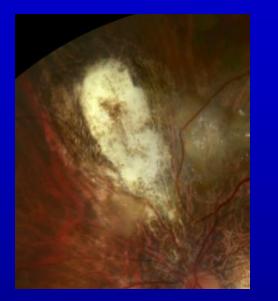




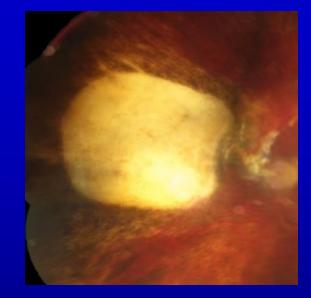




What accounts for this finding?

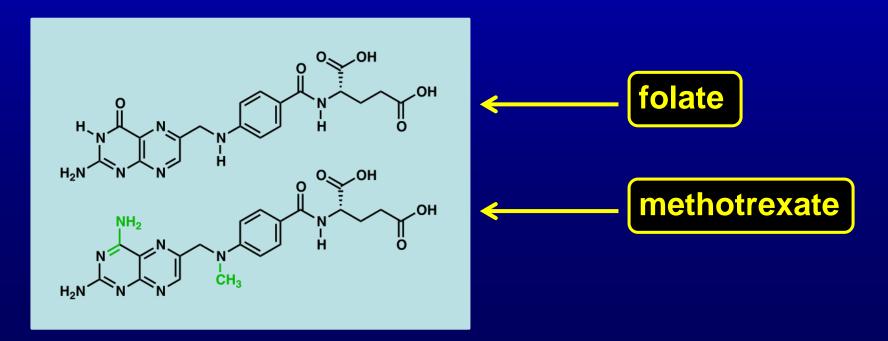






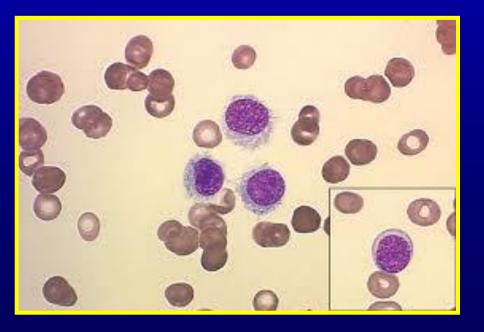
Methotrexate?

- chemotherapeutic agent
 - inhibits dihydrofolate reductase
 - folate essential in thymidine systhesis



- chemotherapeutic agent
 - inhibits dihydrofolate reductase
 - folate essential in thymidine systhesis

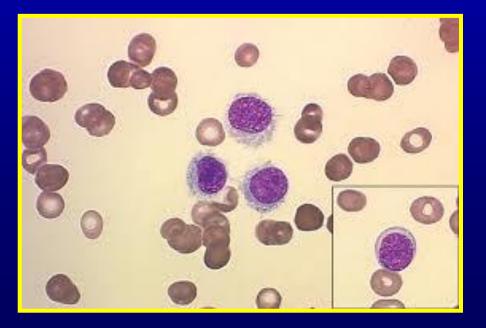
approved for a variety of cancers



- chemotherapeutic agent
 - inhibits dihydrofolate reductase
 - folate essential in thymidine systhesis



low systemic toxicity



• antiinflammatory agent

- antiinflammatory agent
 - different mechanism of action
 - inhibits T cell activation
 - selective down-regulation of B cells
 - binds IL-1 beta

- antiinflammatory agent
 - different mechanism of action
 - inhibits T cell activation
 - selective down-regulation of B cells
 - binds IL-1 beta

approved for rheumatoid arthritis



Inflammation

- blood-ocular barrier breakdown

PVR pathway

Growth factors

- bFGF, PDGF

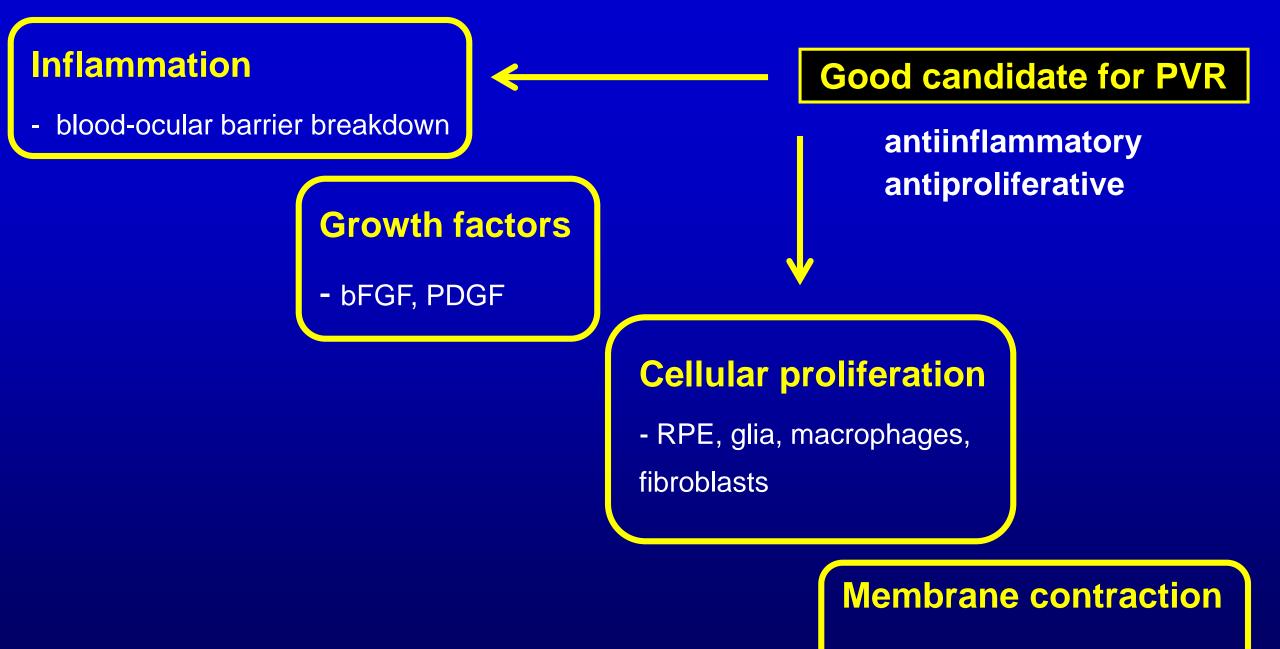
Cellular proliferation

- RPE, glia, macrophages,

fibroblasts

Membrane contraction

- extracellular matrix / collagen



- extracellular matrix / collagen

- used intravitreally for vitreoretinal lymphoma
 - low ocular toxicity, despite repeated injections

Role of Intravitreal Methotrexate in the Management of Primary Central Nervous System Lymphoma with Ocular Involvement

Justine R. Smith, MBBS, PhD,¹ James T. Rosenbaum, MD,^{1,2,3} David J. Wilson, MD,¹ Nancy D. Doolittle, PhD,⁴ Tali Siegal, MD,⁵ Edward A. Neuwelt, MD,⁴ Jacob Pe'er, MD⁶

Ophthalmology 109:1709-1716,2002

- used intravitreally for vitreoretinal lymphoma
 - evidence of safety in oil

THE SAFETY OF INTRAOCULAR METHOTREXATE IN SILICONE-FILLED EYES

PAUL W. HARDWIG, MD, JOSE S. PULIDO, MD, SOPHIE J. BAKRI, MD

Retina 28:1082-1086,2008

- 10 patients
 - prospective study
 - IND from FDA
 - IRB approval

- 10 patients
 - prospective study
 - IND from FDA
 - IRB approval

- 10 injections over 3 month period
 - 1 at end of surgery
 - weekly x 8
 - 1 at 3 months

- 10 patients
 - 2 severe trauma with retinal incarceration in scleral wound
 - 8 recurrent retinal detachment / PVR
 - multiple prior surgeries

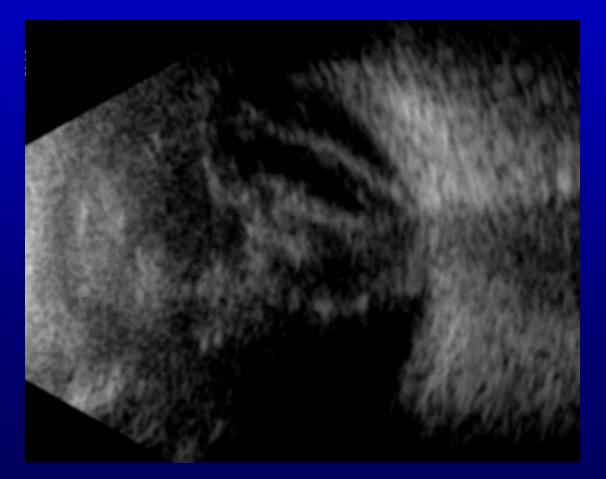
median preop VA: HM

- 10 patients
 - surgery
 - all underwent extensive retinectomy
 - all had silicone oil

- protocol
 - 99% compliance (99 out of 100 injections)

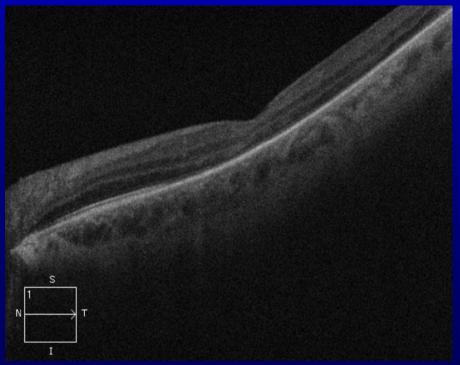
- Trauma patient #1
 - 37 mm scleral rupture, zone 3
 - retina incarcerated in scleral wound

Ultrasound showing total retinal detachment



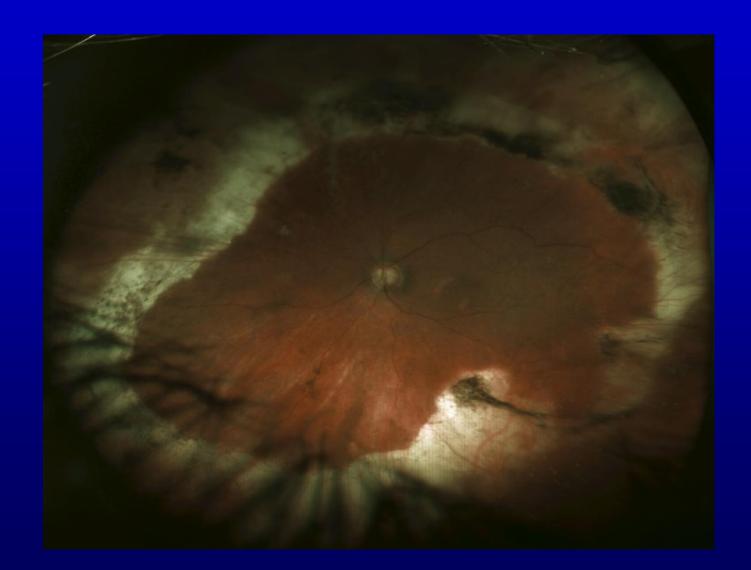
- Trauma patient #1
 - postop month 4





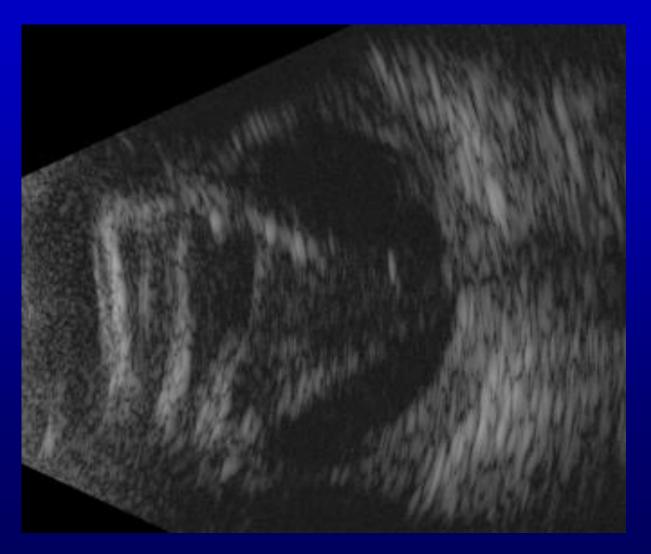
- Trauma patient #1
 - postop year 5

20/65

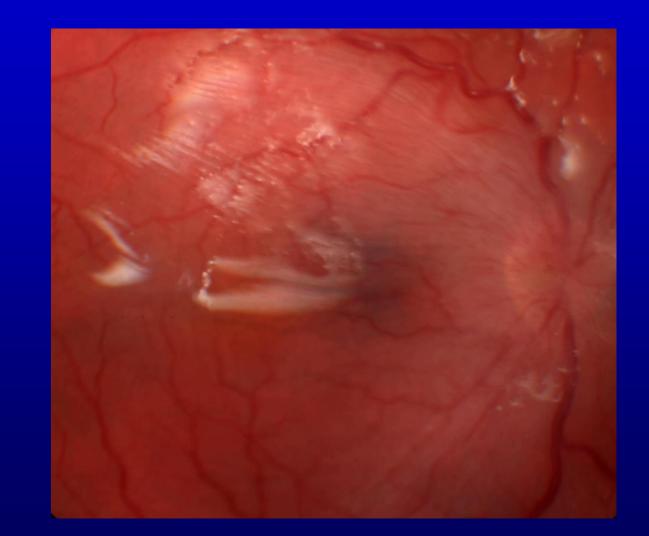


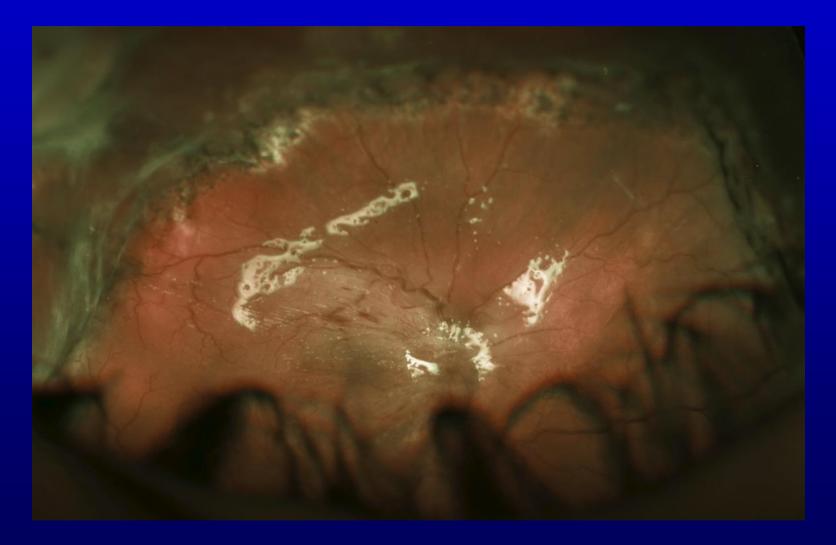
- Trauma patient #2
 - 13 mm scleral rupture, zone 3
 - retina incarcerated in scleral wound

Ultrasound showing total retinal detachment



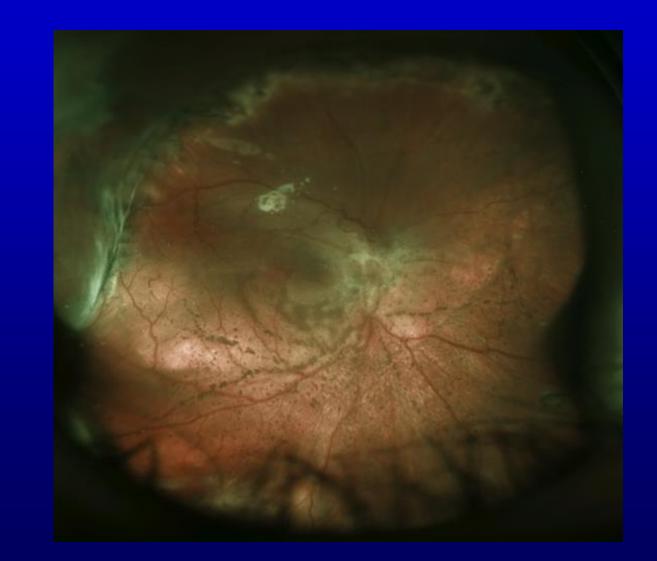
- Trauma patient #2
 - postop week 7

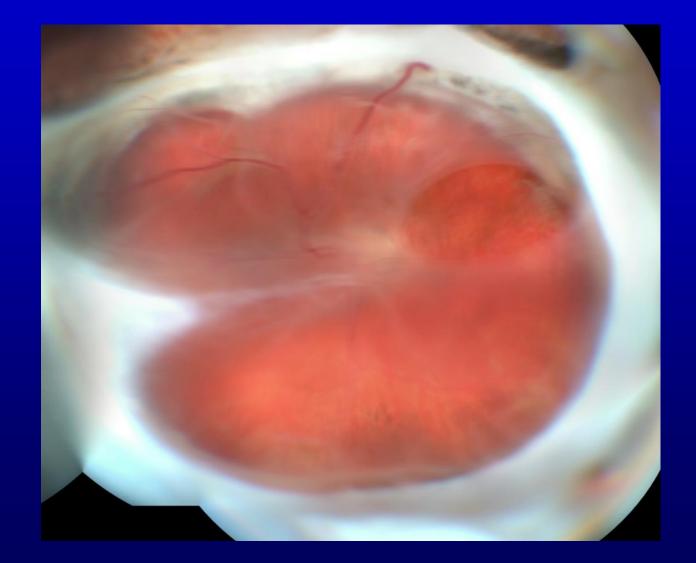




Trauma patient #2
– postop week 12

- Trauma patient #2
 - postop week 16





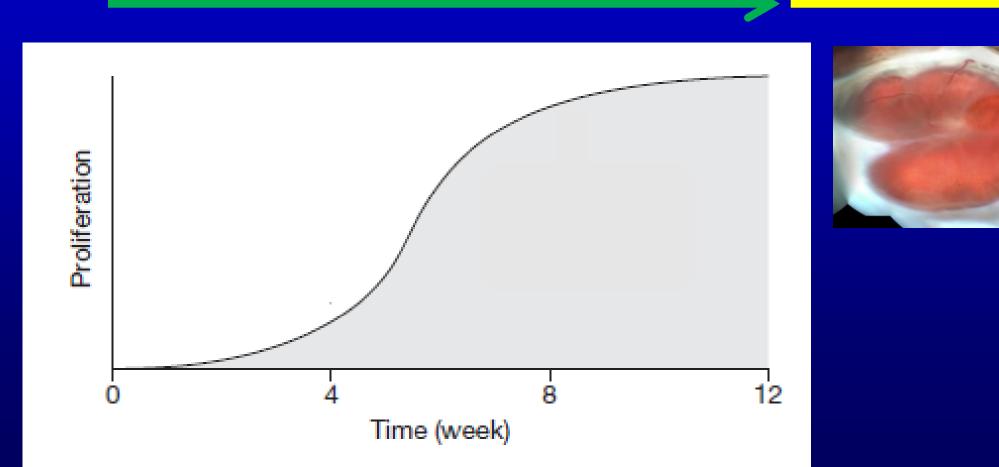
- Trauma patient #2
 - postop year 2

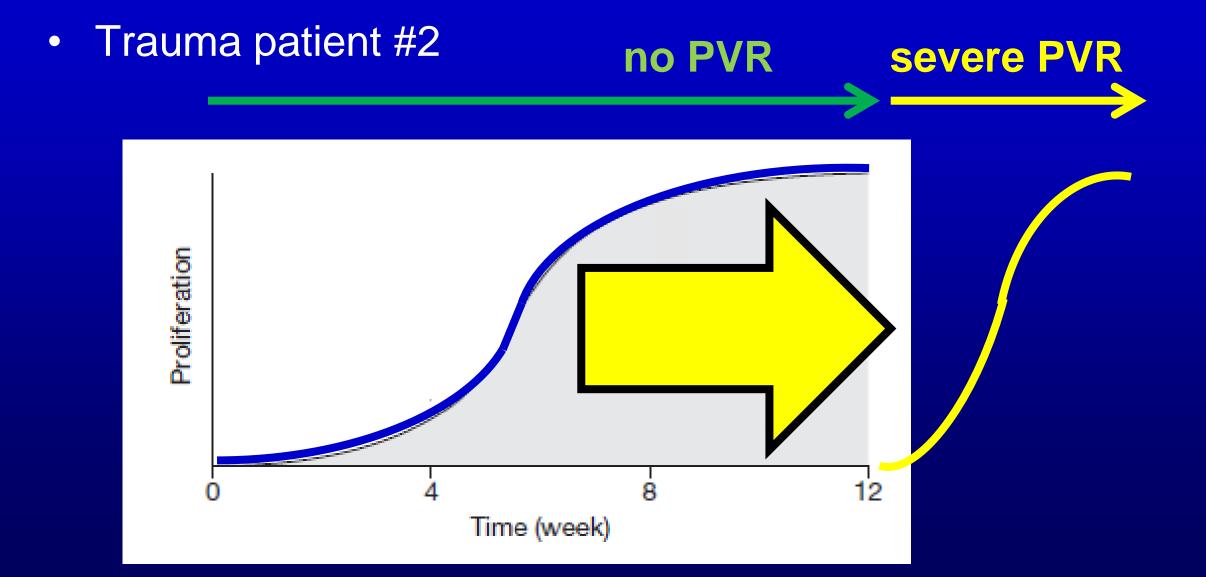
Light Perception

no PVR

severe PVR

• Trauma patient #2





- 10 patients
 - none developed hypotony
 - 3 developed subretinal fluid

- 10 patients
 - none developed hypotony
 - 3 developed subretinal fluid
 - microscopic PVR?

- 10 patients
 - none developed hypotony
 - 3 developed subretinal fluid
 - microscopic PVR?
 - intrinsic retinal contraction?

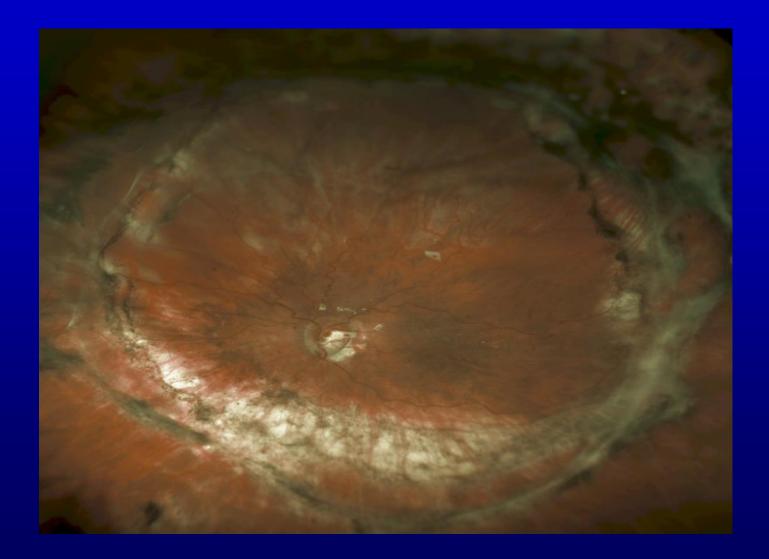
- 10 patients
 - none developed hypotony
 - 3 developed subretinal fluid
 - microscopic PVR?
 - intrinsic retinal contraction?
 - inadequate laser-induced chorioretinal adhesion?



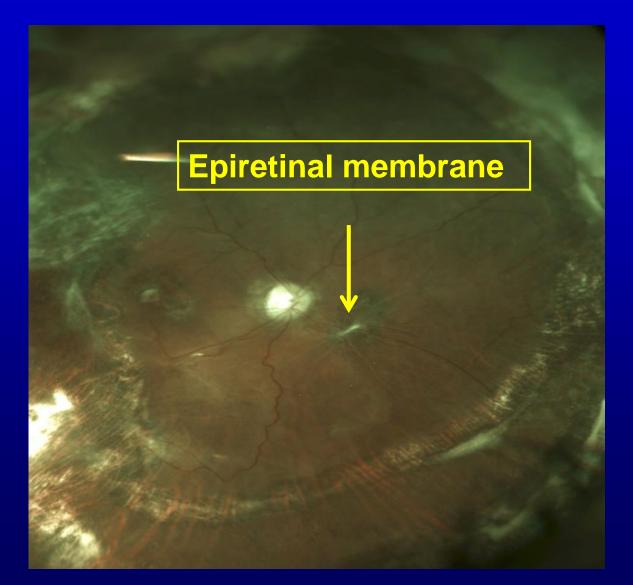
- Patient #5
 - preop



- Patient #5
 - after reoperation

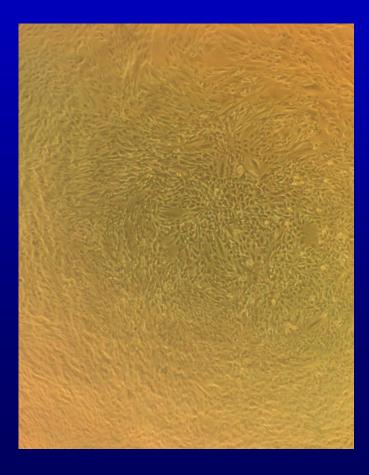


- Patient #3
 - epiretinal membrane



Lab Studies

• cultures of patient membranes





200 μM

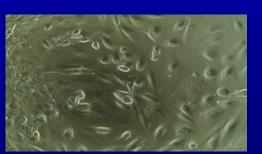
400 μ**M**

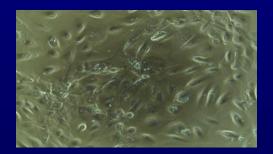
control



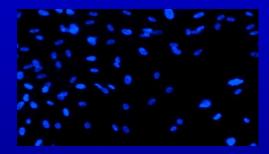


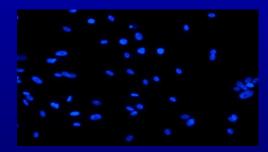
phase contrast

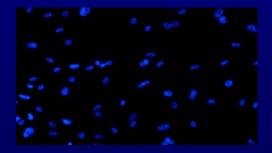






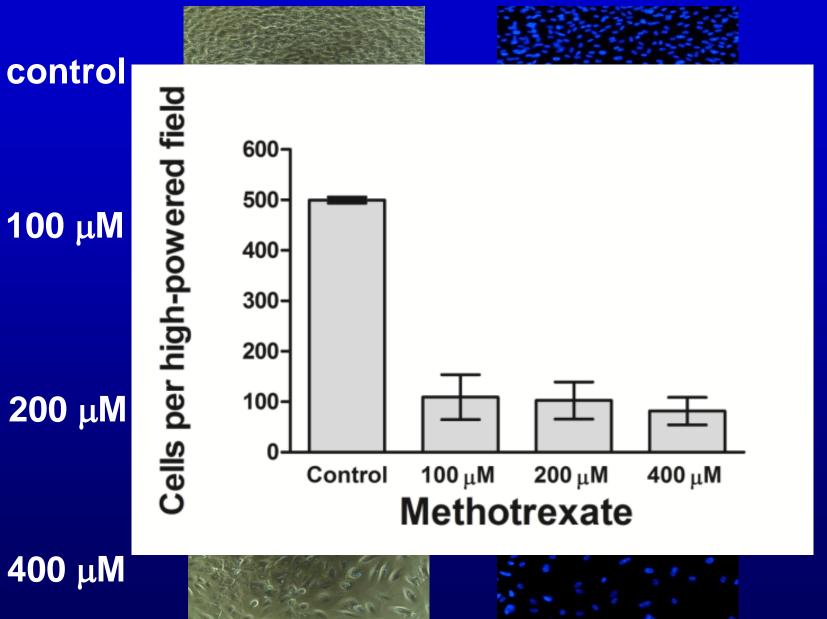






methotrexate inhibits proliferation of cultured PVR cells

phase contrast immunofluorescence

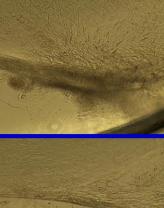


control

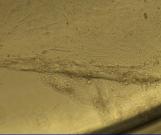
100 μM

200 μM

400 μ**M**







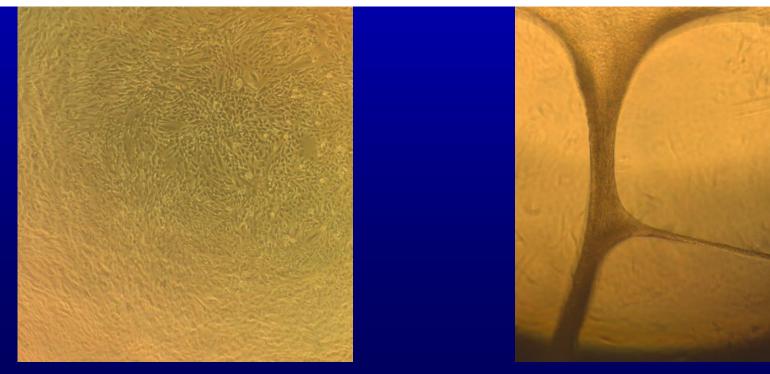


methotrexate inhibits band formation in cultured PVR cells

Lab Studies

Effect of Methotrexate on an In Vitro Patient-Derived Model of Proliferative Vitreoretinopathy

Dhanesh Amarnani,¹ Arturo Israel Machuca-Parra,¹ Lindsay L. Wong,¹ Christina K. Marko,¹ James A. Stefater,² Tomasz P. Stryjewski,² Dean Eliott,² Joseph F. Arboleda-Velasquez,¹ and Leo A. Kim^{1,2}



Helio Vision Co-Founders



Josef von Rickenbach

- Founder, Chairman, and former CEO of PAREXEL, one of the world's leading biopharmaceutical services providers
- PAREXEL has been involved in the development of 94% of the top 200 best-selling drugs in the world



Tomasz Stryjewski

- Chief Resident and Director of the Eye Trauma Service at Mass. Eye and Ear
- Ophthalmology residency at Mass. Eye and Ear/ Harvard Medical School; Internal medicine at Mass. General Hospital; MD (honors) from Harvard Medical School

- 8 recurrent retinal detachment / PVR
- 8 open globe injuries

- 8 recurrent retinal detachment / PVR
- 8 open globe injuries

13 injections / patient



- 8 recurrent retinal detachment / PVR
- 8 open globe injuries

13 injections / patient

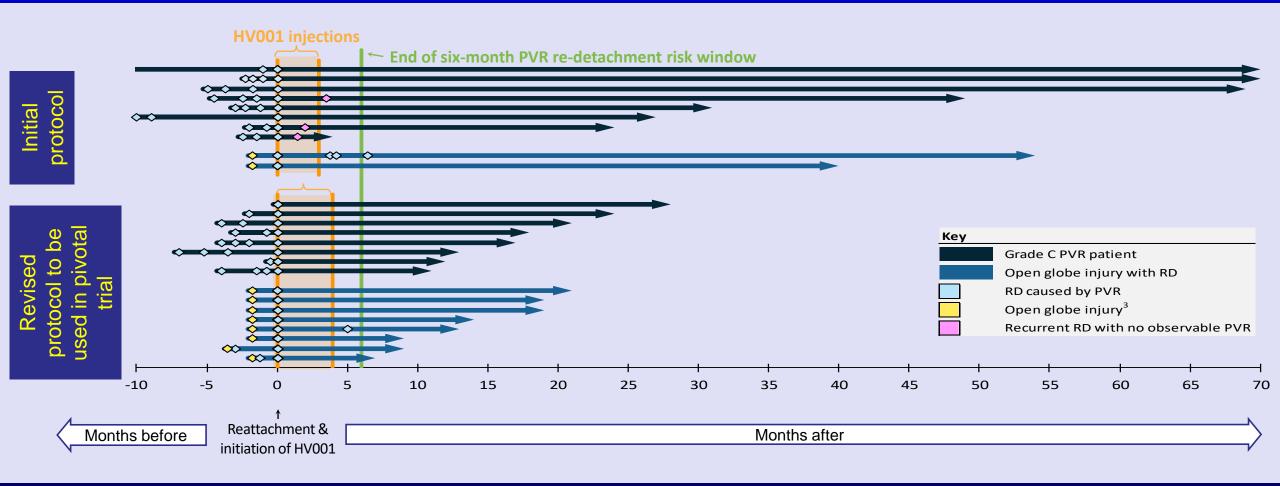


– >95% compliance

- 8 recurrent retinal detachment / PVR
- 8 open globe injuries

- 13 injections / patient
 - 1 developed retinal detachment / PVR
 - 2 developed hypotony
 - 3 eyes minimal epiretinal membranes

Strong Human Efficacy Data



10 Initial Eyes +16 Additional Eyes

Percent of patients with at least one re-detachment due to any cause											
		Grade C PVR		Open globe injury		All patients					
н١	V001										
	Initial protocol	38%	(3/8)	50%	(1/2)	40%	(4/10)				
	Revised protocol	0%	(0/8)	13%	(1/8)	6%	(1/16)	(Protocol to be used in pivotal trial)			
	Combined	19%	(3/16)	20%	(2/10)	19%	(5/26)				
St	andard of care ^{1,2}	54%		47%		51%					

Planned Phase III Trial Design

	Control Arm 100 Subjects			tion Arm
Operative Day 0	Routine Surgical Care Plars Plana Vitrectomy]	Routine Surgical Care Plars Plana Vitrectomy	Experimental Care Injection #1: Intraoperatively Methotrexate 400mcg/0.1ml
Post-Op Day 1	Routine Post-Op Visit VA, IOP, Photo, & OCT		Routine Post-Op Visit VA, IOP, Photo, & OCT	
Post-Op week 1	Routine Post-Op Visit VA, IOP, Photo, & OCT		Routine Post-Op Visit VA, IOP, Photo, & OCT	Injection #2: Methotrexate 400mcg/0.1ml
Post-Op week 2				Injection #3: Methotrexate 400mcg/0.1ml
Post-Op week 3				Injection #4: Methotrexate 400mcg/0.1ml
Post-Op week 4	Routine Post-Op Visit VA, IOP, Photo, & OCT		Routine Post-Op Visit VA, IOP, Photo, & OCT	Injection #5: Methotrexate 400mcg/0.1ml
Post-Op week 5				Injection #6: Methotrexate 400mcg/0.1ml
Post-Op week 6				Injection #7: Methotrexate 400mcg/0.1ml
Post-Op week 7				Injection #8: Methotrexate 400mcg/0.1ml
Post-Op week 8	Routine Post-Op Visit VA, IOP, Photo, & OCT		Routine Post-Op Visit VA, IOP, Photo, & OCT	Injection #9: Methotrexate 400mcg/0.1ml
Post-Op week 10				Injection #10: Methotrexate 400mcg/0.1ml
Post-Op week 12	Routine Post-Op Visit VA, IOP, Photo, & OCT		Routine Post-Op Visit VA, IOP, Photo, & OCT	Injection #11: Methotrexate 400mcg/0.1ml
Post-Op week 14				Injection #12: Methotrexate 400mcg/0.1ml
Post-Op week 16	Routine Post-Op Visit VA, IOP, dilated exam		Routine Post-Op Visit VA, IOP, dilated exam	Injection #13: Methotrexate 400mcg/0.1ml
Post-Op Month 6	Routine Post-Op Visit VA, IOP, dilated exam		Routine Post-Op Visit VA, IOP, dilated exam	

Contingent on funding, regulatory review, and other factors.

Summary

- Methotrexate a promising candidate to study for the prevention of PVR
 - antiproliferative
 - antiinflammatory
- Repeat injections match disease time-course
- Safety and efficacy demonstrated in Phase 1b study in humans & additional eyes



Ocular Disease Area Program Updates

- Proliferative Vitreoretinopathy
 Allergic Conjunctivitis
- Dry Eye Disease •

- Upcoming Milestones

Nasdaq: ALDX ©Aldeyra Therapeutics, Inc. 2019



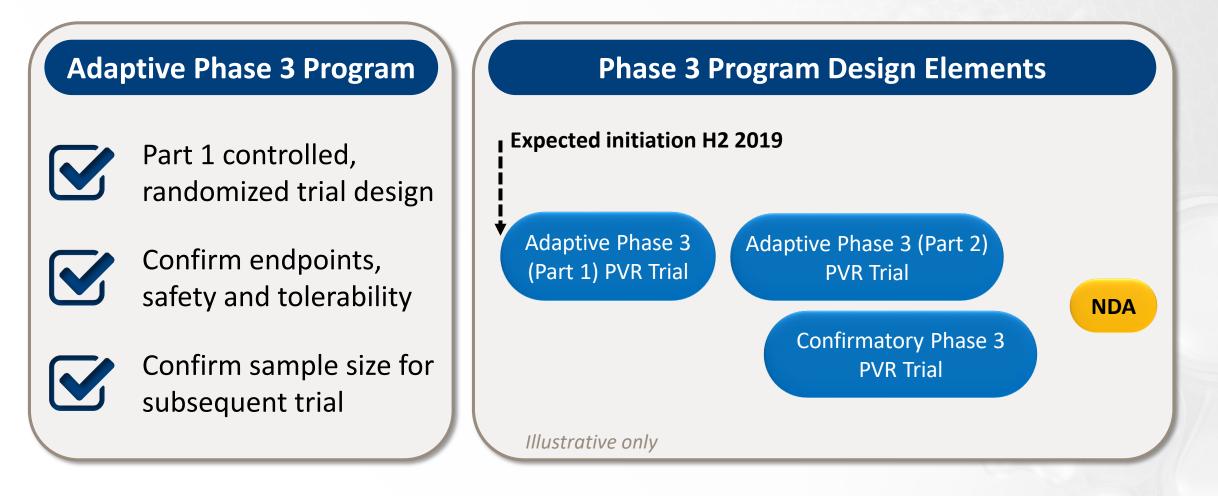
Ocular Disease Area Program Updates

- Proliferative Vitreoretinopathy
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ADX-2191: Adaptive Phase 3 Proliferative Vitreoretinopathy Clinical Program Expected to Initiate H2 2019

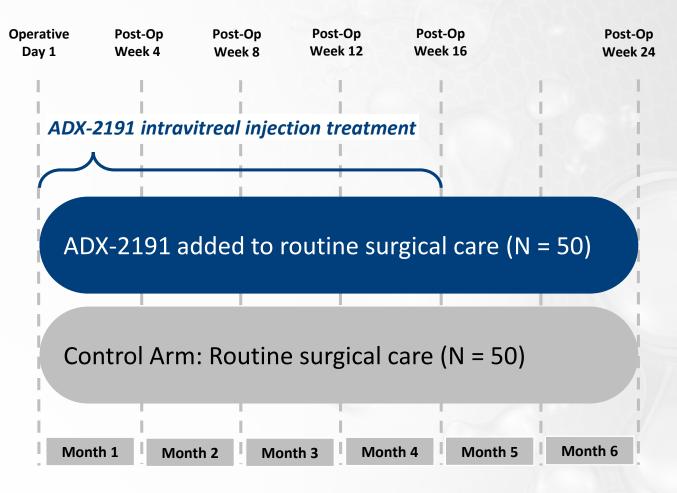




ADX-2191: Adaptive Phase 3 (Part 1) Proliferative Vitreoretinopathy Clinical Trial Design

- Primary objective:
 - Evaluate efficacy of intravitreal ADX-2191 injections for prevention of recurrent retinal detachment due to proliferative vitreoretinopathy (PVR)
- Design:
 - Multi-center, non-masked, randomized, controlled, twopart, adaptive Phase 3 clinical trial
- Inclusion highlights:
 - Recurrent retinal detachment due to PVR, or
 - Retinal detachment associated with open-globe trauma
- Dosing regimen:
 - At surgery, weekly (x8), and then every other week (x4) intravitreal ADX-2191 injections
- Endpoint:
 - Retinal re-detachments due to PVR requiring reoperation within 6 months:
 - 1. OCT demonstrating fovea-off retinal detachment
 - 2. Photographic documentation retinal detachment

Adaptive Phase 3 PVR Clinical Trial Design: Part 1





Ocular Disease Area Program Updates

- Proliferative Vitreoretinopathy
 Allergic Conjunctivitis
- Dry Eye Disease •

- Upcoming Milestones

Nasdaq: ALDX ©Aldeyra Therapeutics, Inc. 2019

Reproxalap: Adaptive Phase 3 Dry Eye Disease Clinical Program Expected to Initiate H1 2019

Adaptive Phase 3 Program



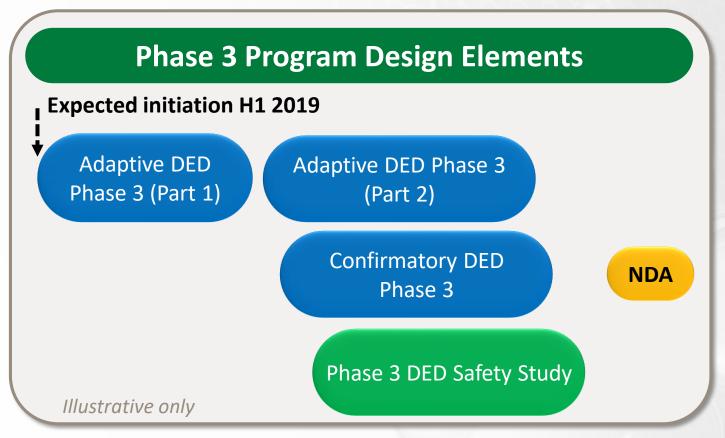
Confirm symptom and sign endpoints from Phase 2b trial



Confirm dosing regimen (QID vs. QID to BID taper)



Confirm sample size for subsequent trial



Adaptive design, co-primary endpoints and innovative analysis strategy confirmed with FDA at EOP2 Meeting

DED = Dry eye disease BID = Two times daily QID = Four times daily EOP2 = End of Phase 2

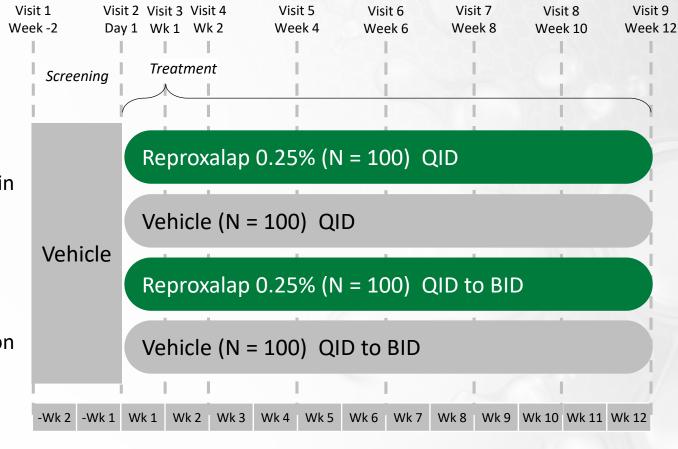
107



Reproxalap: Adaptive Phase 3 (Part 1) Dry Eye Disease Clinical Trial Design

- Primary objective:
 - Evaluate efficacy of reproxalap ophthalmic solution (0.25%) vs. vehicle to confirm dosing regimen and sample size for Part 2
- Inclusion/exclusion criteria:
 - Same as used for Phase 2b
 - Moderate to severe dry eye disease
- Co-primary endpoints:
 - Ocular dryness score (0-100mm VAS) and fluorescein nasal region staining
- Analysis strategy:
 - Both co-primary endpoints will be assessed using Mixed Model Repeated Measures (MMRM) from week 2 to week 12
 - Both co-primary endpoints will be assessed based on separate pre-specified patient populations
 - Ocular dryness score (OD4SS): baseline score of > 3
 - Fluorescein nasal staining: baseline score > 2

Phase 3 Dry Eye Disease Clinical Trial: Part 1

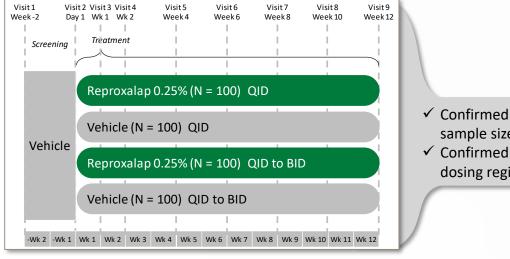




Reproxalap: Adaptive Phase 3 (Part 2) Dry Eye Disease Clinical Trial Design

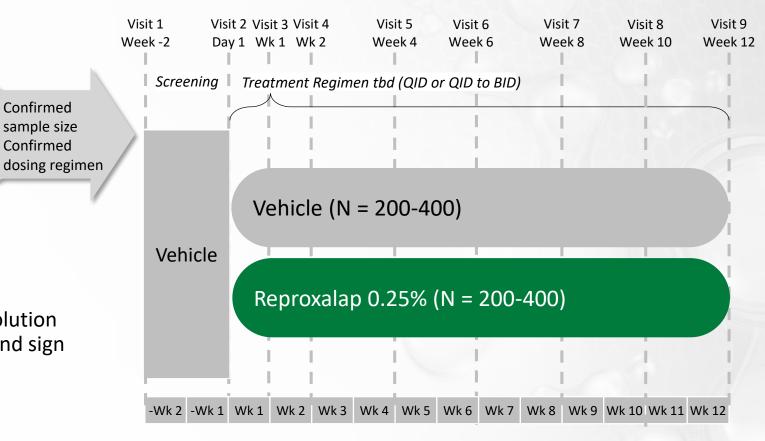
✓ Confirmed

sample size



Phase 3 Dry Eye Disease Clinical Trial: Part 1

Phase 3 Dry Eye Disease Clinical Trial: Part 2



Phase 3 Dry Eye Disease Clinical Trial: Part 2

Primary objective:

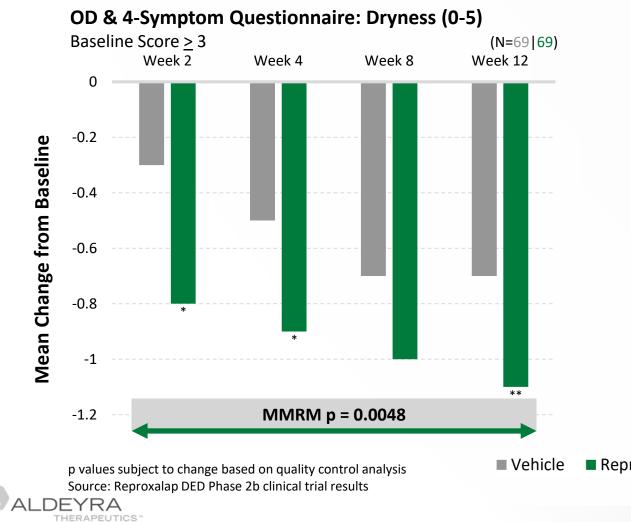
DEYRA

Evaluate efficacy of reproxalap ophthalmic solution (0.25%) vs. vehicle on co-primary symptom and sign endpoints

Population selection and design: ٠ Same as Part 1

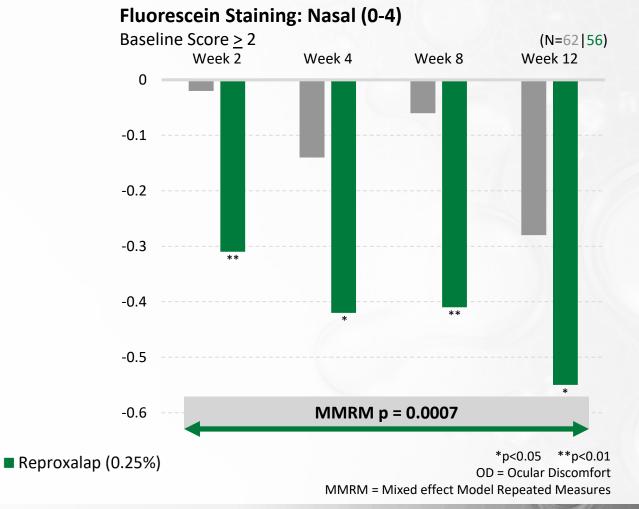
Reproxalap: Dry Eye Disease Symptom and Sign Endpoints Achieved in Phase 2b Clinical Trial

Primary Symptom Endpoint for Phase 3 DED



•

Primary Sign Endpoint for Phase 3 DED



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Ocular Disease Area Program Updates

- Proliferative Vitreoretinopathy
- Dry Eye Disease

- Allergic Conjunctivitis
- Upcoming Milestones

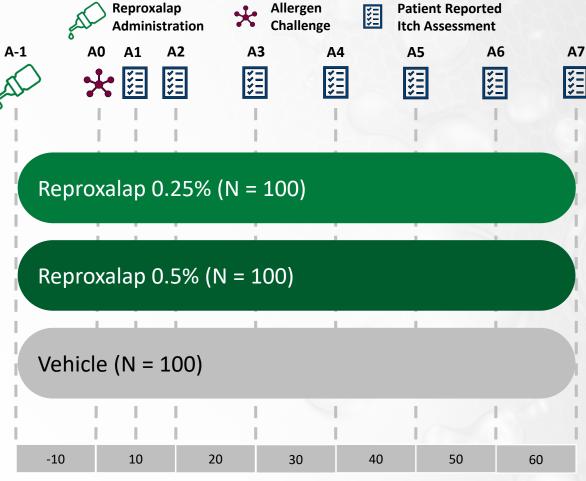
Reproxalap: ALLEVIATE Phase 3 Trial Design in Allergic Conjunctivitis

Primary objective:

- Evaluate efficacy of reproxalap ophthalmic solutions (0.25% & 0.5%) compared to vehicle for the treatment of ocular itching associated with acute allergic conjunctivitis
- Inclusion/exclusion highlights:
 - Positive history of ocular allergies and positive skin test reaction to a seasonal allergen
 - Positive bilateral conjunctival allergen challenge (CAC) reaction of ≥2.5 for itching and ≥2 for redness within 10 min of allergen instillation at first baseline visit
 - Positive bilateral CAC reaction for at least two out of first three time points following challenge at second baseline visit
- Endpoints:
 - Ocular itch score area under the curve (primary)
 - Two-point responder comparison (key secondary)
- Results expected to be announced early 2019

ALLEVIATE is the first of two required Phase 3 clinical trials, pending regulatory review. In preparation for a subsequent Phase 3 clinical trial, Aldeyra is conducting clinical method development studies to assess the feasibility of measuring ocular itching following environmental exposure to allergen.

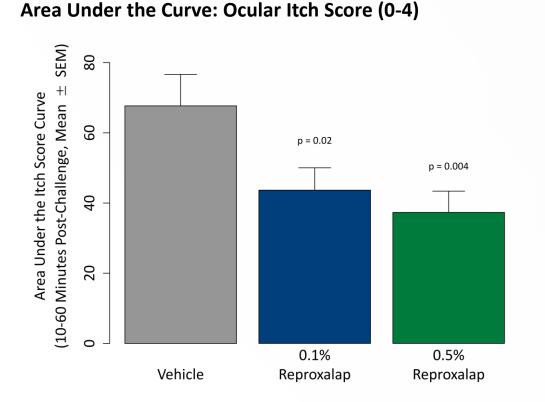
Phase 3 Conjunctival Allergen Challenge Trial



Time (in minutes)

Further information can be found on www.clinicaltrials.gov: Trial #NCT03494504.

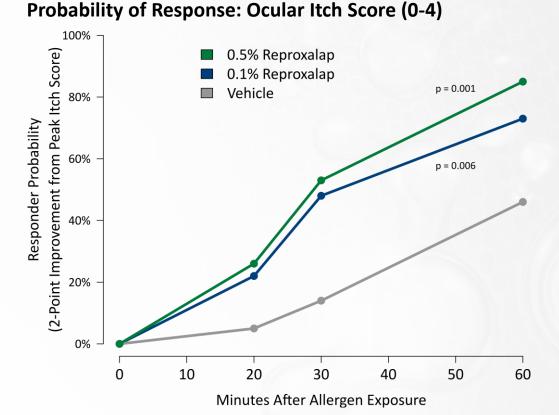
Reproxalap: AC Ocular Itch Area Under The Curve and Responder Endpoints Achieved in Phase 2b Clinical Trial



Improvement in itch score over one hour after allergen exposure statistically greater for reproxalap vs. vehicle

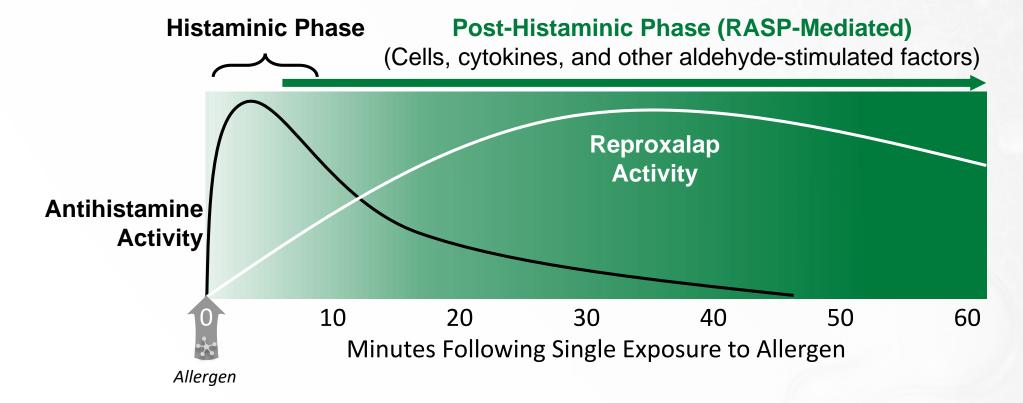
Source: Reproxalap AC Phase 2b clinical trial results (~30 patients per arm, seasonal allergy)

•



Clinically significant response rate of reproxalap statistically higher than that of vehicle

Reproxalap's Novel Mechanism of Action has the Potential to Provide More Durable Activity Than Antihistamines

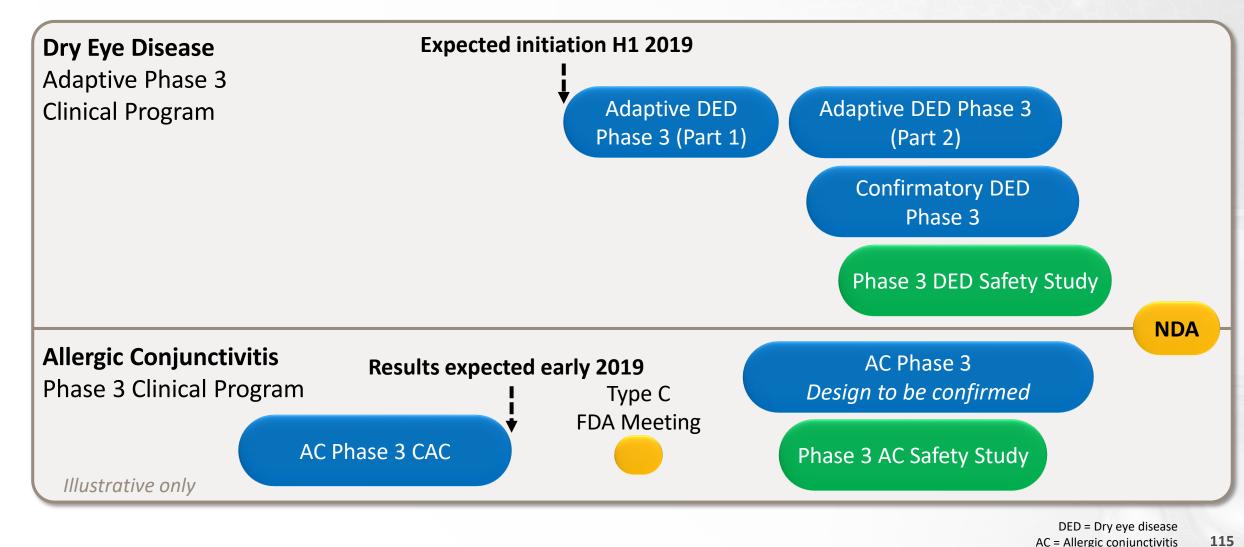


Reproxalap has the potential to be uniquely effective in post-histaminic allergy, for which no drug is approved, and which affects all allergic conjunctivitis patients.

RASP = Reactive Aldehyde Species



Reproxalap: Parallel Dry Eye Disease and Allergic Conjunctivitis Phase 3 Clinical Programs Support Concurrent NDA Filings







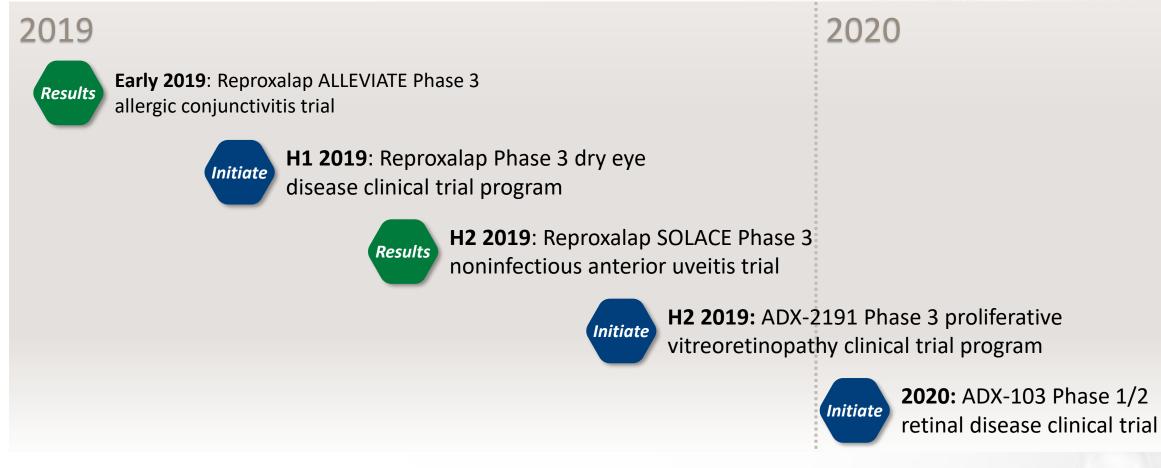
Ocular Disease Area Program Updates

- Proliferative Vitreoretinopathy
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- Dry Eye Disease •

- Upcoming Milestones

Multiple Upcoming Ocular Disease Area Clinical Program Milestones

Ocular Disease Area Anticipated Milestones*



*Contingent on funding, regulatory review, and other factors.

DEYRA

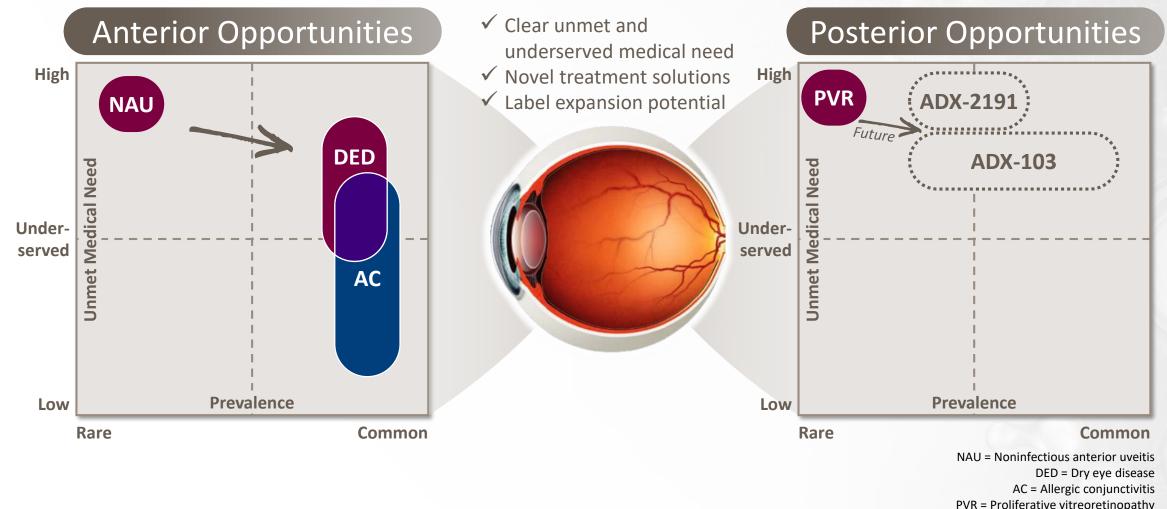


Ocular Disease Area Market Opportunities

- Proliferative Vitreoretinopathy
- Dry Eye Disease and Allergic Conjunctivitis

- Noninfectious Anterior Uveitis
- Pathway to Commercialization

We Intend to Target Unmet Medical Needs in Anterior and Posterior Ocular Diseases







Ocular Disease Area Market Opportunities

- Proliferative Vitreoretinopathy
- Dry Eye Disease and Allergic Conjunctivitis

- Noninfectious Anterior Uveitis
- Pathway to Commercialization

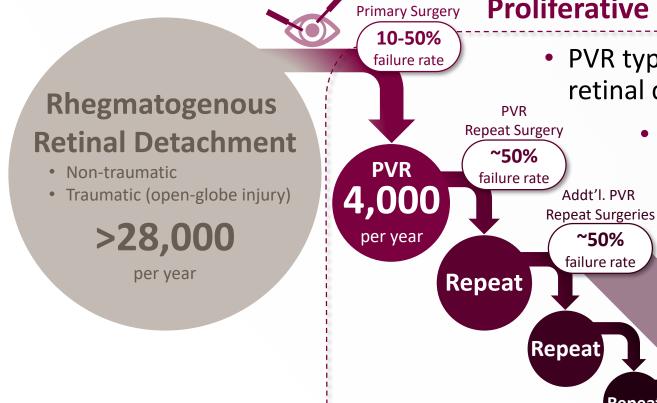
PVR: A Rare Sight-Threatening Retinal Disease





PVR: High Unmet Medical Need With No Approved Therapies

U.S. Estimates



Proliferative Vitreoretinopathy

Addt'l. PVR

~50%

failure rate

Repea

Etc.

- PVR typically manifests 1-2 months after primary retinal detachment surgery
 - PVR primary surgery failure rates vary depending on detachment etiology
 - Today, PVR patients undergo 3-to-4 additional surgeries on average
 - Vision and quality of life decreases with each procedure
 - No FDA-approved therapy

Novel Approaches Needed



ADX-2191: A Unique Approach and Novel Product Candidate for PVR

PVR: A Sight-Threatening Disease



Left untreated, retinal detachment due to **PVR can progress to permanent blindness**



No FDA- or EMA-approved therapy



Repeat surgery and subsequent **vision loss** currently the only possible course of action

A Unique Opportunity

ADX-2191

- A novel approach and potential therapeutic breakthrough in PVR treatment
- Granted U.S. orphan designation
- Tolerability and reattachment success during study period demonstrated in Phase 1b clinical trial
- Adaptive Phase 3 clinical trial expected to initiate H2 2019





Ocular Disease Area Market Opportunities

- Proliferative Vitreoretinopathy
- Dry Eye Disease and Allergic Conjunctivitis

- Noninfectious Anterior Uveitis
- Pathway to Commercialization

DED and AC: Persistently Disturbing and Overlapping Disease Burdens

Dry Eye Disease



20 million or more adults in the U.S. suffer from DED



Studies have shown that **DED** and AC can be interrelated and often overlap

DED+AC Comorbidity

Allergic Conjunctivitis



Up to 30 million of AC sufferers in the U.S. do not respond adequately to or are dissatisfied with antihistamines



DED increases with age, with those over age 50 three times more likely to suffer from DED



~50-60% of **DED and AC** patients experience clinically significant itch and dryness



AC patients experience symptoms throughout all decades of adult life





Allergen exposure can contribute to **DED seasonality**



AC can result in acute, intermittent, and chronic symptoms



Significant negative quality of life impact



Significant negative quality of life impact x2



Significant negative quality of life impact

> DED = Dry eye disease AC = Allergic conjunctivitis



Source: Aldeyra internal estimates based on primary and secondary market research; published literature

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DED and AC: Chronic Diseases With Inadequate Therapies

Dry Eye Disease

DED+AC Comorbidity

★[®]

Current Rx options may take up to six weeks or longer to achieve even modest efficacy



Up to 75% of patients with DED are not satisfied with current prescription options



Up to 50% of patients **treated for DED** with current therapies **fail and discontinue**

Underserved Patient Population



Differential diagnosis is difficult and treating both conditions together is complex.

Current Rx **DED treatments are not effective against AC** and vice versa

Antihistamine use can cause and exacerbate eye dryness

Unmet Medical Need

Allergic Conjunctivitis



Many AC patients make significant sacrifices due to lack of drug activity



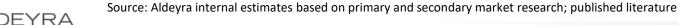
Antihistamines are not effective in an estimated 24% of treated AC patients



~2% of AC patients have severe symptoms and **may be corticosteroid-dependent**

Underserved Patient Population

DED = Dry eye disease AC = Allergic conjunctivitis



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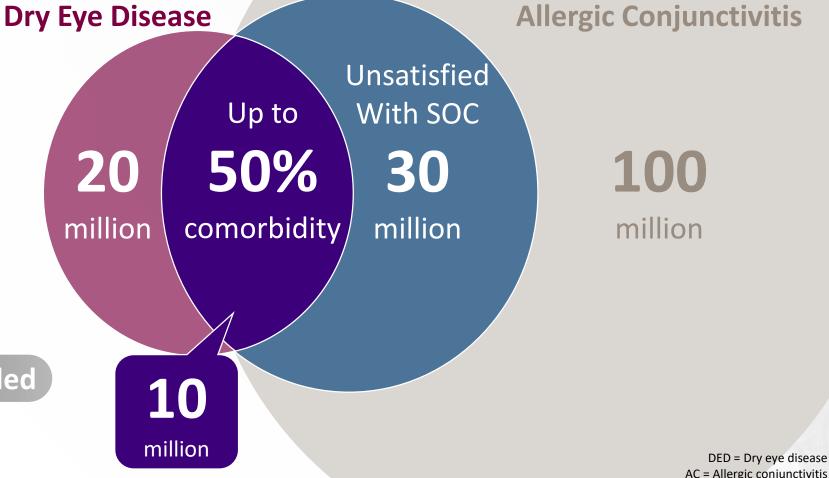
DED and AC: Large Market Opportunities With Unmet Medical Needs

U.S. Patient Estimates

- Significant negative quality of life
- Complex, overlapping, and difficult to treat chronic conditions
- Substantial unmet medical need with current treatments

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Novel Approaches Needed



Reproxalap: A Unique and Novel Product Candidate for DED and AC

Dry Eye Disease	DED+AC Overlap	Allergic Conjunctivitis	
Reproxalap in DED	Reproxalap	Reproxalap in AC	
Early and consistent symptom and sign improvements in Phase 2b clinical trial	Observed improvements in both DED and AC Phase 2b clinical trials	Clinically significant and durable symptom response in Phase 2b clinical trial	
Broad symptom and sign improvements in Phase 2b clinical trial	Both patients and physicians have a strong desire for better DED and AC treatments	Effective in post-histaminic allergy, for which no drug is approved	
	Novel mechanism of action and diffe	erentiated	





Ocular Disease Area Market Opportunities

- Proliferative Vitreoretinopathy
- Dry Eye Disease and Allergic Conjunctivitis

- Noninfectious Anterior Uveitis
- Pathway to Commercialization

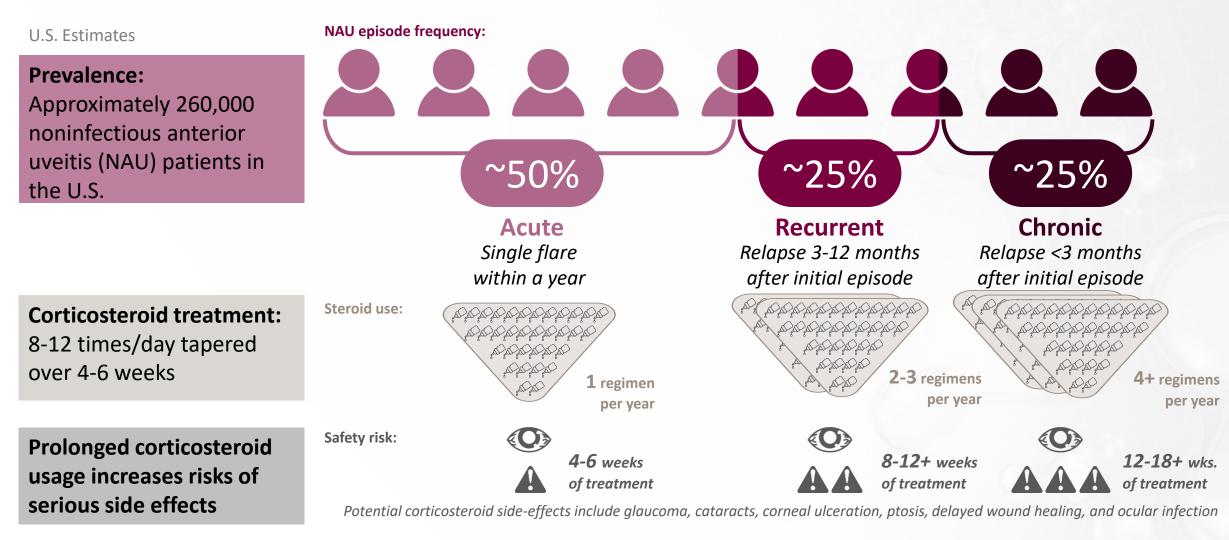
NAU: A Severe Ocular Inflammatory Disease

Disease Burden Overview

NAU is the **most common form of** Noninfectious anterior uveitis (NAU) is a severe ocular inflammation uveitis with an estimated 260,000 260K U.S. patients per year causing pain, photophobia, and vision loss annually NAU dramatically impacts ~50% of NAU patients have recurrent or chronic quality of life, leading to loss of work and significant conditions requiring multiple economic burden interventions per year **Recurrent Chronic** Acute 4+/pt./yr. 2-3/pt./yr.



NAU: Significant Repeat Episodes and Steroid Toxicity Creates the Need for Novel Approaches

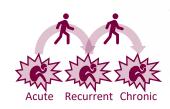


Source: Aldeyra internal estimates based on primary and secondary market research; published literature

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Reproxalap: A Unique and Novel Product Candidate for NAU

NAU: A Serious Inflammatory Disease With Inadequate Current Therapy



~50% of noninfectious anterior uveitis (NAU) patients have **recurrent or chronic conditions** requiring multiple interventions per year



Corticosteroids currently SOC and require monitoring due to serious toxicities



Prolonged usage may lead to **glaucoma**, **cataracts**, **corneal ulceration**, and other serious side effects

A Unique Opportunity

Reproxalap

- A novel and differentiated approach to treat NAU
- Reduced anterior chamber cell count observed in a Phase 2 clinical trial, statistically non-inferior to corticosteroid treatment
- Safety and tolerability without IOP increase in a Phase 2 clinical trial
- SOLACE Phase 3 clinical trial results expected H2 2019

NAU = Noninfectious anterior uveitis SOC = Standard of Care IOP = Intraocular pressure





Ocular Disease Area Market Opportunities

- Proliferative Vitreoretinopathy
- Dry Eye Disease and Allergic Conjunctivitis

- Noninfectious Anterior Uveitis
- Pathway to Commercialization

We Intend to Commercialize Directly and Through Partnerships

<u>Late Stage Programs</u> Ocular Diseases	Estimated U.S. Population*	U.S. Healthcare Providers	Competitive Value Proposition	Infrastructure Requirement	Commercial Planning ✓ Launch readiness
Dry Eye Disease	20 million DED Up to 10 million	~18,000 ophthalmologists	Potential benefits over current therapies, which do	Medium sized sales force for	✓ Maximize value
Allergic Conjunctivitis	with DED & AC 30 million AC	and ~40,000 optometrists	not work well for many patients	national reach	Characterize the
Noninfectious Anterior Uveitis	260,000	~200 U.S. uveitis sub-specialists	Effective non- steroid alternative	Small targeted sales force	business model Prepare for
Proliferative Vitreoretinopathy	4,000	Retina specialists at targeted centers	Orphan: First and only Rx treatment	Small specialized operation	commercialization
Systemic Diseases					Develop partnership options
Sjögren-Larsson Syndrome	1,000	Geneticists and ped. neurologists	Orphan: First and only Rx treatment	Small specialized operation	

*Aldeyra estimates of the addressable market

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Source: Aldeyra internal estimates based on primary and secondary market research; published literature



Conclusion

Expected Development Milestones: Novel Approaches to Address Immune-Mediated Disease

Ocular Diseases: Anticipated Milestones*



Reproxalap allergic conjunctivitis ALLEVIATE Phase 3 trial **results early 2019**



Reproxalap dry eye disease Phase 3 clinical trial program initiation H1 2019



Reproxalap noninfectious anterior uveitis SOLACE Phase 3 clinical trial **results H2 2019**



ADX-2191 Proliferative Vitreoretinopathy Phase 3 clinical program initiation H2 2019



ADX-103 retinal disease Phase 1/2 clinical trial initiation 2020

Systemic Diseases: Anticipated Milestones*



Reproxalap Sjögren-Larsson Syndrome RESET Phase 3 - Part 1 clinical trial **results H2 2019**



ADX-629 **Phase 1 clinical trial initiation H2 2019** followed by NASH and/or IBD Phase 2a



ADX-1612 post-transplant lymphoproliferative disorder **Phase 2 clinical trial initiation 2019**



ADX-1612 mesothelioma Phase 2 clinical trial initiation 2019